

SEQUENCE LISTING

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 Secrist, Heather

<120> COMPOSITIONS AND METHODS FOR
 THE THERAPY AND DIAGNOSIS OF LUNG CANCER

<130> 210121.475C10

<140> US

<141> 2001-05-11

<160> 735

<170> FastSEQ for Windows Version 3.0

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<211> 339

<212> DNA

<213> Homo sapien

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gatgtggggt	ctctagccca	cagctctsta	cctttgtcta	gcactcctgt	cctcatacct	180
ragtggcctg	tccatcagca	tgttttctcat	ctacttttgc	tgtccagtc	actgtggtcc	240
tcccttgccc	tctcccttat	gtggcagagt	ggaaccagct	gtcctgagac	ttgagttcaa	300
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<210> 2

<211> 698

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(698)

<223> n = A,T,C or G

<400> 2

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gagctgctgc	aaggtgtcat	gggagctccc	acactccatg	cactttwaga	tctgggactt	180
gcaggcctca	ractgccagg	tgtagctcgc	tccatttttg	tagccatagc	gsttgttgga	240
ggacaactgc	aagttggcgt	tcttctgaga	agaaaaagaa	tctgcaaaag	atcctgtggt	300
tgaatcgggg	gaacacggcc	gattgacatc	aaaaacgcgt	ttcttagccc	gggtgaccat	360
tttcgaggaa	atggttgagg	actggctcct	tcaaaggcac	tttttggtta	tgttttgttt	420
yaatcatgtk	gacgctccaa	tcttggragg	gaatcgaang	rantcncnc	caaaacatrc	480

stttcagraa	ccttttgarc	atcctctttt	ttccgtrtcc	cggmaargcc	cytttccckg	540
ggctttgaaa	wyagcctsgt	tgggttctta	aattaccart	ccacnwggtg	gaattccccg	600
ggccccctgc	cgggktccaa	ccaatttttg	graaaacccc	cncansccgt	tkggantgcn	660
acaacntggn	ntttttcntt	tcgtgntccc	ctngaacc			698

<210> 3
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 <212> DNA
 <213> Homo sapien

<220>
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 <223> n = A,T,C or G

<400> 3						
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gggccaagta	gctgcantan	ccttcagtcc	cagttgcatt	gggttaaaga	gctcatacat	180
actatgtgtg	aggggtacag	aagcttttcc	tcatagggca	tgagctctcc	nagagttgac	240
cttttgccctn	aacttggggg	ttctgtgggt	cataaagtn	ggatatgtat	tttttttcaa	300
atggaanaaa	atccgtattt	ggcaaaaaga	ctccaggggg	atgatactgt	ccttgccact	360
tacagtccaa	angatnttcc	ccaaagaata	gacatttttt	cctctcatca	cttctggatg	420
caaaatcttt	tatttttttc	ctttctcgca	ccnccccaga	ccccttnnag	gttnaaccgc	480
ttcccatctc	ccccattcca	cacgatnttg	aattngcann	ncgttgntgg	tcgggtcccn	540
nccgaaaggg	tnntttttatt	cggggtntctg	anttnnnaac	cnctnagttg	aatccgcggg	600
gcggccnngn	gggttnnacc	atgntgggga	naactncccn	ccgcgnttgg	aatgccanag	660
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<210> 4
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 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(712)
 <223> n = A,T,C or G

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cgggtgcggt	ggctcacgca	tgtatcccag	cactttggga	ggccgaggca	ggaggatcac	180
ctgaggtcag	gagtttgaga	ccagcctggc	cgacatggtg	aaaccccgct	tctactanga	240
atacanaaat	tagcccgggc	atagtggcgc	gtgcctrtga	cctcsgctac	tttggggatt	300
ctcctgagga	agaattgctt	gaactcaggg	aagtggargt	ttgcagttag	cttaaataca	360
gccactggca	ctcccagcct	gggktaacag	agccamgact	ctkgccgaaa	aaaaaraama	420
cgacggagaa	nmagntctgt	tattccatgg	gaaattkgaa	tttccttctt	tkaaataatc	480
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cycccccttt	tggggarggc	caarggccgc	kttgawtnnc	ccttgagggg	ccanaactcc	600
agnaaccrgn	cccgggccar	smgwkgkstr	armcccttcc	cyyccmaraa	aawwcsmaaa	660
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<210> 5

<211> 679
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(679)
 <223> n = A,T,C or G

<400> 5

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cagagggttc	tgcaggatgt	gctattttaa	agcagctggg	tgcaacttgt	gaaaacggga	180
atctngaagc	agaacatgtn	atcagcgatg	gctgggattg	gtggacagga	ttgacaggag	240
tatttgaggc	tctaccaggc	ctgtctacag	gacagcttca	tcgaaggggac	atTTTTTaaC	300
ctgttatTTT	anatnccaca	tatntTTTTT	aatgctnaag	catacagggt	gaatTTTctg	360
atcgtaacta	ctagtgactt	ctgaggTTTa	cagTTngaag	atgTTctcnn	aggTTtatca	420
agTtntgtta	ttgatgatng	gtaatctaca	cctctggaag	ctgTngaagT	tgaaaaagat	480
ncntncanct	gaccagTTTg	nagggcactc	tcttctggna	agnaatccgn	ccaaaaaaat	540
tgTTTcnagg	gggcntgggg	ggTTtaaaaa	aatgTTTctn	ttncCNTaaa	aatgTTTacc	600
cnnctattga	aaaaatgggg	gtcgnngggg	gcttnaaatc	cccnantTnt	gaatntTnta	660
tccggaanct	tggtttccc					679

<210> 6
 <211> 369
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(369)
 <223> n = A,T,C or G

<400> 6

tcagtccagt	catgggtcct	ataagagaag	tcactctgtg	agTTTccatg	gaggaagaaa	60
aagcttcatt	tctttaccct	gcagcaacag	cggaggggagg	gagagcctat	cttctttgca	120
aattcattaa	ctttgtgggt	gaaggggagca	gcgtcngaaa	ctgcttttagc	acagtgggag	180
gaaaacaaac	agattcatct	ccggaaacca	aaggaaaggg	tragtggggt	tttattagcc	240
agctgtatcc	tagatgggtc	atttccagtg	gatgaataca	ccttacgtac	gtttctcttg	300
cttcctacct	nggcctgatc	agctnggcac	ttraatcatt	ccgtnggggt	wgctgtnaca	360
ctggactga						369

<210> 7
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 7

tgctggatra	gggatggggc	acgggagcac	agatmgactt	taactgcccc	cacgttntcm	60
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aggaaaggat tacaggcgtg agccactgcg cccggcctct tctccacttt cataggttcc 120
agtctctggt tcttctttct cagtttggtg tttttgcttc ttaaammatg gagatnagaa 180
tgaacactac actcgggaatc aggaagccct gcctggcgcc tctgtcacct gtctaggggc 240
ttcttctcac tgagtcaccc agca 264

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<210> 8
<211> 280
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

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<400> 8
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accgccccna ttaagaatta gagcaagcag tgagggtgaag ccttgtcctt gcttttaaca 180
tagaaagtga tccaaattca ccaaacttga cttnnnggtt tgcagtgtgg cctcctgatt 240
ctagacnctg gcgaaacatt tgatgggcaa aaaaaaaaaa 280

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<210> 9
<211> 449
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(449)
<223> n = A,T,C or G

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<400> 9
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ntgcagtgtc natgactggc tttgcagttt attttgattc aggcaacaga tggttcctttt 120
ggttccctgt ctcccatggg cgtcatttca tggtgtcctc tgccttcccc cagatattct 180
aagttcagga cacaagcttc tggcccatgc agagcagagg ccatgagggg tcacagcatg 240
ggtacgggag gaaacactgg gctnaccacg atnctggact tgagtcttgc ctctgctgct 300
tgctgcacag cttctgtcat ggtgctaaac ctgtgacctg cctcacaggc ttagagcatg 360
cccgtagaag tactctnaac taaratgctt tccacaaatg agatgggttc atgaaaactt 420
caaataagagg gcctgggcaa aaaaaaaaaa 449

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<210> 10
<211> 538
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(538)
<223> n = A,T,C or G

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<400> 10
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atccgcccggg	atacatgcc	cttggtttga	taaatcaaaa	tacagcatcc	ttcagatccc	120
tttgctgagc	aatacaatta	tttgtatatg	ttactttttt	ttctggttgg	ctnaaagatt	180
tgatatgagc	tgaggaaaat	gaagccntta	ctgctatnag	atctnatccc	tttccaccac	240
ctttcaggga	tnttggcact	gcayatattc	agaattcccc	nnagtcgctn	gtgataaaaa	300
tgtcttcaga	gatggcagaa	tatgtttcct	ttggtacatg	ttcattaata	atatacacgt	360
gctcactact	gtggatatgt	atgtnttgac	cgatnacaca	ggctgattta	gggaagagat	420
aaaagcacac	ttngaattta	ttagcctttc	accnagacta	anattctgaa	attaagaatg	480
tattccttgg	tcaacaattt	tcctcttctc	ttagccctct	tacattgtan	tggactga	538

<210> 11

<211> 543

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(543)

<223> n = A,T,C or G

<400> 11

tttttttttt	ttgcccacag	ctgccatctt	tgtgtgataa	ggccaacctt	ctatgggaat	60
caaccctcgc	catcccagca	aatcccctct	ctcccctctc	atgggagtg	cttgatttca	120
tcaggcatct	gggacttgat	gtgggtntgg	gatttgaaat	cagagcacct	nggtctctst	180
caccattctn	tcacttatta	gctctnacct	tgggtnaata	cctgccttag	tgtcntaggt	240
acaatatgaa	tattgtctat	ttctcaggga	ttgcaatgac	nagtnnatna	gtgcatgaga	300
gggtaaaacc	acagggtact	ccgctcctcc	naagaatgga	gaattttttc	tagaagccca	360
natntgcttg	gaagggtggc	caccnagagc	cnnaatcttc	ttttatttnc	cactgaangc	420
ctaagaggna	attctgaact	catcccnnna	tgacctctcc	cgaatmagaa	tatctctggc	480
acttaccata	ttttcttgcc	ctcttccact	tacnaaactc	ctttatttct	taacnggacg	540
aaa						543

<210> 12

<211> 329

<212> DNA

<213> Homo sapien

<400> 12

cgatgacttg	ggcagtgagt	gggcctcctg	ccaggtggca	gggcacagct	tagaccaaac	60
ccttggcctc	ccccctctgc	agstacctct	gaccaagaag	gaaactagca	agcctatgct	120
ggcaagacca	taggtggggg	gctgggaatc	ctcggggccg	gctggcaccc	actcctgggtg	180
ctcaaggagg	agaccactt	gttcagatgc	atrggcctca	ggcggttcaa	ggcrgtctta	240
gagccacaga	gtcaaataaa	aatcaatttt	gagagaccac	agcacctgct	gctttgatcg	300
tgatgttcaa	ggcaagttgc	aagtcacg				329

<210> 13

<211> 314

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(314)

<223> n = A,T,C or G

<400> 13

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gcgggagtgg	agaccaccaa	accctccaaa	cagagcaaca	actagtacgc	ggccagcagc	120
tacctgagcc	tgacgcccga	gcagtgggaag	tcccacagaa	gctacagctg	ccagggtcacg	180
catgaaggga	gcaccgtgga	gaagacagtg	gcccctacag	aatgttcata	ggttcccnac	240
tctnacccca	cccacgggag	cctgganctg	cangatcccg	ggggaagggt	ctctctcccc	300
atcccaagtc	atcg					314

<210> 14

<211> 691

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(691)

<223> n = A,T,C or G

<400> 14

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ttccagttca	gtgctgctgg	gtttttctta	ctaaaccaa	acaatkaaga	gcatagaagg	120
gaagagaaga	ataaagtcta	ttttgggtctt	tggtagcchg	ggtaangaga	atgctstcac	180
tctacnagaa	aaccnaagt	gaacccggct	aatcaggacc	gtgcttgga	aggagcagg	240
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ccnwtnaatg	amssgggccc	ttaactcggg	scrggtnamy	ncttgsetsc	rattttgggt	600
ycytcttcyt	ttgsccmgtt	tcktcnaaac	cacttngttr	aattccccgg	sccgcctkgc	660
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<210> 15

<211> 355

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(355)

<223> n = A,T,C or G

<400> 15

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accgtgccta	tgtccgacag	ctagttncct	ccatggatgt	gactgagacc	aatgtcttct	120
tcyaccctcg	gctcttacct	ttgacnaagt	ctcccgttga	gagtactacc	gaaccaccag	180
cagttcgagc	ctctnaagag	cgtctaagcg	atggggatat	atatttactg	gagaatgggc	240
tcaacctctt	cctctgggtg	ggagcaagcg	tccagcaggg	tgttgtccag	agccttttca	300
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<210> 16

<211> 522

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(522)
 <223> n = A,T,C or G

<400> 16

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tttcttgaac	aaaagttctg	aagatgatgc	ggcctcagag	agcttcctcc	cctcgggaagg	180
tgcgtcctct	gaccccggtga	ccctncgtcg	aangatgctg	gctgccgccg	cggaacggan	240
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tgtgcccggc	tgactggagg	aggcctgtcc	aattctgccc	gccccatgga	aaagcgggct	360
tgactgcatt	gccgctgtat	naaagcatgt	ggtcttacag	tgttnggacn	gctnatnaat	420
ttnatcctnc	tntgtaatac	ttcctatgtg	acatttctct	tccccttgga	aacactgcan	480
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<210> 17
 <211> 317
 <212> DNA
 <213> Homo sapien

<400> 17

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aaggataagc	accagagaaa	gaaggttcag	ccggccgtcc	tgaaatatta	taaggtggat	120
gagaatggca	aaattagttg	ccttcgtcga	gagtgtccct	ctgatgaatg	tggtgctggg	180
gtgtttatgg	caagtcactt	tgacagacat	tattgtggca	aatgttgtct	gacccactgt	240
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aaaaaaaaaa	actcgag					317

<210> 18
 <211> 392
 <212> DNA
 <213> Homo sapien

<400> 18

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aggaacatgt	taaaaatcct	tacaaaggca	aaaaactcaa	gaaacaccca	gacttcccca	120
agaagccctt	gaccccttat	ttccgcttct	tcattggagaa	gcggggccaag	tatgcgaaac	180
tccaccctca	gatgagcaac	ctggacctga	ccaagattct	gtccaagaaa	tacaaggagc	240
ttccggagaa	gaagaagatg	aaatatgttc	cggacttcca	gagaagagaa	acaggagttc	300
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cggacatccc	agagaagccc	caagaccccc	cg			392

<210> 19
 <211> 2624
 <212> DNA
 <213> Homo sapien

<400> 19

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acattcgcac	aaaccctcag	tcctgggttg	ataacgggag	catctgcatg	aggatggaga	120
tcttgggctg	cccactgccg	gacctaata	actattatca	ccgacgtaat	gagatgacca	180
ccacggatga	cctggatttt	aagcaccaca	actattagga	aatgcgccag	ttgatgaagg	240

ttgtcaatga	aatgtgcccc	aatattacca	ggattttacaa	cattggcaaa	agccaccagg	300
gcctgaaatt	gtatgcggtg	gagatctctg	accatcctgg	ggaacatgaa	gttgggtgagc	360
ccgagttcca	ctacatcgca	ggggcccacg	gcaatgaggt	tctgggacga	gaactgctgc	420
tgctgctgct	gcacttcctc	tgccaggaat	actcggcgca	gaacgcacgc	atcgtccgct	480
tgggtggagga	gactcgaatc	cacattctac	cctccctcaa	tcctgatggc	tatgagaagg	540
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tcgatatcaa	caacaacttt	ccggatttaa	actcgctgct	ctgggaggca	gaggaccagc	660
agaatgcccc	aaggaaggtc	cccaaccact	acattgccat	ccctgagtgg	tttctgtctg	720
agaatgccac	agtggccaca	gagaccagag	ccgtcatcgc	ctggatggag	aagatcccgt	780
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tgcggtccct	gtggaagacc	caggagcaca	ccccaacacc	tgatgatcat	gtgttccgct	900
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gggagtctct	gattgtgttc	atggagcagg	ttcatcgagg	catcaaaggc	atagtgagag	1200
atttacaagg	gaaagggatt	tcaaagtctg	tcatctctgt	ggaagggtgt	aaccatgaca	1260
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aataaaaaatc	cactccagta	gtaactctgt	agcaggcttt	ccctgttggt	ttgactgtaa	1620
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<210> 20

<211> 488

<212> DNA

<213> Homo sapien

<400> 20

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cctaaccc 488

<210> 21
<211> 391
<212> DNA
<213> Homo sapien

<400> 21
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<210> 22
<211> 1320
<212> DNA
<213> Homo sapien

<400> 22
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<210> 23
<211> 633
<212> DNA
<213> Homo sapien

<400> 23
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<210> 24

<211> 1328

<212> DNA

<213> Homo sapien

<400> 24

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<210> 25

<211> 1758

<212> DNA

<213> Homo sapien

<400> 25

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aaaaaaaaa	aactcgag					1758

<210> 26

<211> 493

<212> DNA

<213> Homo sapien

<400> 26

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ccgtggacca	caggccctcg	ttgccagat	cctgtgggcc	aaagctgacc	aactcccccg	420
ccgtcttcgt	catggtgggc	ctcccccgcc	cggggcaaga	cctacttctc	cacgaaagct	480
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<210> 27

<211> 1331

<212> DNA

<213> Homo sapien

<400> 27

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aacatgtaat	aatgaagtgg	tcaaaatgca	gaggctaaca	ttagaacact	tgaatcagat	180
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aaggaaagaa	gaaccaagct	ctatttttca	gagacaacgt	gtggatgctt	tacttttaga	540

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<210> 28

<211> 1333

<212> DNA

<213> Homo sapien

<400> 28

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<210> 29

<211> 813

<212> DNA

<213> Homo sapien

<400> 29

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<210> 30

<211> 1316

<212> DNA

<213> Homo sapien

<400> 30

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gctttgctca	gccttaaatg	gaatcttaga	gctttctctt	gcttctgcta	ctcctacaga	1140
tggcctcatc	atgggtctcca	ctcagtatta	ataactccat	cagcatagag	caaactcaac	1200
actgtgcatt	gcacactgtt	accatgggtt	tatgctcact	atcatatcac	attgccaata	1260
tttagcacac	ttaataaatg	cttgtcaaaa	ccccaaaaaa	aaaaaaaaaa	ctcgag	1316

<210> 31

<211> 1355

<212> DNA

<213> Homo sapien

<400> 31

cggcggtgga	tatccgagac	aatctgctgg	gaatttcttg	ggttgacagc	tcttgatcc	60
ctattttgaa	cagtggtagt	gtcctggatt	acttttcaga	aagaagtaat	cctttttatg	120
acagaacatg	taataatgaa	gtgggtcaaaa	tgcagaggct	aacattagaa	cacttgaatc	180
agatggttgg	aatcgagtac	atccttttgc	atgctcaaga	gccattctt	ttcatcattc	240
ggaagcaaca	gcggcagtc	cctgcccaag	ttatcccact	agctgattac	tatatcattg	300
ctggagtgat	ctatcaggca	ccagacttgg	gatcagttat	aaactctaga	gtgcttactg	360
cagtgcattg	tattcagtc	gcttttgatg	aagctatgtc	atactgtcga	tatcatcctt	420

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ccaaagggta ttggtggcac ttcaaagatc atgaagagca agataaagtc agacctaaag 480
ccaaaaggaa agaagaacca agctctatctt ttcaagagaca acgtgtggat gctttacttt 540
tagacctcag acaaaaatttt ccacccaaat ttgtgcagct aaagcctgga gaaaagcctg 600
ttccagtgga tcaaacaaag aaagaggcag aacctatacc agaaactgta aaacctgagg 660
agaaggagac cacaaagaat gtacaacaga cagtgagtgc taaaggcccc cctgaaaaac 720
ggatgagact tcagtgagta ctggacaaaa gagaagcctg gaagactcct catgctagtt 780
atcatacctc agtactgtgg ctcttgagct ttgaagtact ttattgtaac cttcttattt 840
gtatggaatg cgcttatttt ttgaaaggat attaggccgg atgtgggtggc tcacgcctgt 900
aatcccagca ctttggggagg ccatggcggg tggatcactt gaggtcagaa gttcaagacc 960
agcctgacca atatggtgaa accccgtctc tactaaaaat acaaaaatta gccggggcgtg 1020
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cgggaggtgg aggttgccct gagctgatta tcatgctgtt gcactccagc ttgggcgaca 1140
gaacgagact ttgtctcaaa aaaagaagaa aagatattat tcccatcatg atttcttgtg 1200
aatatttgtt atatgtcttc tggtaacctt tcctctcccg gacttgaagc aacctcacac 1260
actcacatgt ttactggtag atatgtttta aaagcaaaat aaaggtattt gtttttccaa 1320
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcgag 1355

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<210> 32
<211> 80
<212> PRT
<213> Homo sapien

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<400> 32
Val Ser Arg Ile Arg Gly Gly Ala Lys Lys Arg Lys Lys Lys Ser Tyr
1 5 10 15
Thr Thr Pro Lys Lys Asp Lys His Gln Arg Lys Lys Val Gln Pro Ala
20 25 30
Val Leu Lys Tyr Tyr Lys Val Asp Glu Asn Gly Lys Ile Ser Cys Leu
35 40 45
Arg Arg Glu Cys Pro Ser Asp Glu Cys Gly Ala Gly Val Phe Met Ala
50 55 60
Ser His Phe Asp Arg His Tyr Cys Gly Lys Cys Cys Leu Thr His Cys
65 70 75 80

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<210> 33
<211> 130
<212> PRT
<213> Homo sapien

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<400> 33
Glu Ile Ser Asn Glu Val Arg Lys Phe Arg Thr Leu Thr Glu Leu Ile
1 5 10 15
Leu Asp Ala Gln Glu His Val Lys Asn Pro Tyr Lys Gly Lys Lys Leu
20 25 30
Lys Lys His Pro Asp Phe Pro Lys Lys Pro Leu Thr Pro Tyr Phe Arg
35 40 45
Phe Phe Met Glu Lys Arg Ala Lys Tyr Ala Lys Leu His Pro Gln Met
50 55 60
Ser Asn Leu Asp Leu Thr Lys Ile Leu Ser Lys Lys Tyr Lys Glu Leu
65 70 75 80
Pro Glu Lys Lys Lys Met Lys Tyr Val Pro Asp Phe Gln Arg Arg Glu
85 90 95
Thr Gly Val Arg Ala Lys Pro Gly Pro Ile Gln Gly Gly Ser Pro Pro
100 105 110

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Pro Tyr Pro Glu Cys Gln Glu Ser Asp Ile Pro Glu Lys Pro Gln Asp
 115 120 125
 Pro Pro
 130

<210> 34
 <211> 506
 <212> PRT
 <213> Homo sapien

<400> 34
 Asn Ser Glu Lys Glu Ile Pro Val Leu Asn Glu Leu Pro Val Pro Met
 1 5 10 15
 Val Ala Arg Tyr Ile Arg Ile Asn Pro Gln Ser Trp Phe Asp Asn Gly
 20 25 30
 Ser Ile Cys Met Arg Met Glu Ile Leu Gly Cys Pro Leu Pro Asp Pro
 35 40 45
 Asn Asn Tyr Tyr His Arg Arg Asn Glu Met Thr Thr Thr Asp Asp Leu
 50 55 60
 Asp Phe Lys His His Asn Tyr Lys Glu Met Arg Gln Leu Met Lys Val
 65 70 75 80
 Val Asn Glu Met Cys Pro Asn Ile Thr Arg Ile Tyr Asn Ile Gly Lys
 85 90 95
 Ser His Gln Gly Leu Lys Leu Tyr Ala Val Glu Ile Ser Asp His Pro
 100 105 110
 Gly Glu His Glu Val Gly Glu Pro Glu Phe His Tyr Ile Ala Gly Ala
 115 120 125
 His Gly Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Leu His
 130 135 140
 Phe Leu Cys Gln Glu Tyr Ser Ala Gln Asn Ala Arg Ile Val Arg Leu
 145 150 155 160
 Val Glu Glu Thr Arg Ile His Ile Leu Pro Ser Leu Asn Pro Asp Gly
 165 170 175
 Tyr Glu Lys Ala Tyr Glu Gly Gly Ser Glu Leu Gly Gly Trp Ser Leu
 180 185 190
 Gly Arg Trp Thr His Asp Gly Ile Asp Ile Asn Asn Asn Phe Pro Asp
 195 200 205
 Leu Asn Ser Leu Leu Trp Glu Ala Glu Asp Gln Gln Asn Ala Pro Arg
 210 215 220
 Lys Val Pro Asn His Tyr Ile Ala Ile Pro Glu Trp Phe Leu Ser Glu
 225 230 235 240
 Asn Ala Thr Val Ala Thr Glu Thr Arg Ala Val Ile Ala Trp Met Glu
 245 250 255
 Lys Ile Pro Phe Val Leu Gly Gly Asn Leu Gln Gly Gly Glu Leu Val
 260 265 270
 Val Ala Tyr Pro Tyr Asp Met Val Arg Ser Leu Trp Lys Thr Gln Glu
 275 280 285
 His Thr Pro Thr Pro Asp Asp His Val Phe Arg Trp Leu Ala Tyr Ser
 290 295 300
 Tyr Ala Ser Thr His Arg Leu Met Thr Asp Ala Arg Arg Arg Val Cys
 305 310 315 320
 His Thr Glu Asp Phe Gln Lys Glu Glu Gly Thr Val Asn Gly Ala Ser
 325 330 335
 Trp His Thr Val Ala Gly Ser Leu Asn Asp Phe Ser Tyr Leu His Thr

			340					345					350				
Asn	Cys	Phe	Glu	Leu	Ser	Ile	Tyr	Val	Gly	Cys	Asp	Lys	Tyr	Pro	His		
		355					360					365					
Glu	Ser	Glu	Leu	Pro	Glu	Glu	Trp	Glu	Asn	Asn	Arg	Glu	Ser	Leu	Ile		
	370					375					380						
Val	Phe	Met	Glu	Gln	Val	His	Arg	Gly	Ile	Lys	Gly	Ile	Val	Arg	Asp		
385					390					395					400		
Leu	Gln	Gly	Lys	Gly	Ile	Ser	Asn	Ala	Val	Ile	Ser	Val	Glu	Gly	Val		
			405						410					415			
Asn	His	Asp	Ile	Arg	Thr	Ala	Ser	Asp	Gly	Asp	Tyr	Trp	Arg	Leu	Leu		
		420						425					430				
Asn	Pro	Gly	Glu	Tyr	Val	Val	Thr	Ala	Lys	Ala	Glu	Gly	Phe	Ile	Thr		
	435						440					445					
Ser	Thr	Lys	Asn	Cys	Met	Val	Gly	Tyr	Asp	Met	Gly	Ala	Thr	Arg	Cys		
	450					455					460						
Asp	Phe	Thr	Leu	Thr	Lys	Thr	Asn	Leu	Ala	Arg	Ile	Arg	Glu	Ile	Met		
465					470					475					480		
Glu	Thr	Phe	Gly	Lys	Gln	Pro	Val	Ser	Leu	Pro	Ser	Arg	Arg	Leu	Lys		
			485						490					495			
Leu	Arg	Gly	Arg	Lys	Arg	Arg	Gln	Arg	Gly								
			500					505									

<210> 35

<211> 96

<212> PRT

<213> Homo sapien

<400> 35

Met	Asn	Gly	Glu	Ala	Asp	Cys	Pro	Thr	Asp	Leu	Glu	Met	Ala	Ala	Pro		
1				5					10					15			
Arg	Gly	Gln	Asp	Arg	Trp	Ser	Gln	Glu	Asp	Met	Leu	Thr	Leu	Leu	Glu		
			20					25					30				
Cys	Met	Lys	Asn	Asn	Leu	Pro	Ser	Asn	Asp	Ser	Ser	Gln	Phe	Lys	Thr		
		35					40					45					
Thr	Gln	Thr	His	Met	Asp	Arg	Glu	Lys	Val	Ala	Leu	Lys	Asp	Phe	Ser		
	50				55					60							
Gly	Asp	Met	Cys	Lys	Leu	Lys	Trp	Val	Glu	Ile	Ser	Asn	Glu	Val	Arg		
65				70					75						80		
Lys	Phe	Arg	Thr	Leu	Thr	Glu	Leu	Ile	Leu	Asp	Thr	Gln	Glu	His	Val		
				85					90					95			

<210> 36

<211> 129

<212> PRT

<213> Homo sapien

<400> 36

Gly	Ile	Val	Val	Phe	Ser	Leu	Gly	Ser	Met	Val	Ser	Glu	Ile	Pro	Glu		
1				5					10					15			
Lys	Lys	Ala	Val	Ala	Ile	Ala	Asp	Ala	Leu	Gly	Lys	Ile	Pro	Gln	Thr		
			20					25					30				
Val	Leu	Trp	Arg	Tyr	Thr	Gly	Thr	Arg	Pro	Ser	Asn	Leu	Ala	Asn	Asn		
		35					40					45					
Thr	Ile	Leu	Val	Gln	Trp	Leu	Pro	Gln	Asn	Asp	Leu	Leu	Gly	His	Pro		

50		55		60											
Met	Thr	Arg	Ala	Phe	Ile	Thr	His	Ala	Ser	Ser	His	Gly	Val	Asn	Glu
65					70				75					80	
Ser	Ile	Cys	Asn	Gly	Val	Pro	Met	Val	Met	Ile	Pro	Leu	Phe	Gly	Asp
			85						90					95	
Gln	Met	Asp	Asn	Ala	Lys	Arg	Arg	Glu	Thr	Lys	Gly	Ala	Gly	Val	Thr
			100					105					110		
Leu	Asn	Val	Leu	Glu	Met	Thr	Ser	Glu	Asp	Leu	Glu	Asp	Ala	Leu	Lys
		115					120					125			
Ser															

<210> 37
 <211> 238
 <212> PRT
 <213> Homo sapien

<400> 37
Asn Leu Leu Gly Ile Ser Trp Val Asp Ser Ser Trp Ile Pro Ile Leu
1 5 10 15
Asn Ser Gly Ser Val Leu Asp Tyr Phe Ser Glu Arg Ser Asn Pro Phe
20 25 30
Tyr Asp Arg Thr Cys Asn Asn Glu Val Val Lys Met Gln Arg Leu Thr
35 40 45
Leu Glu His Leu Asn Gln Met Val Gly Ile Glu Tyr Ile Leu Leu His
50 55 60
Ala Gln Glu Pro Ile Leu Phe Ile Ile Arg Lys Gln Gln Arg Gln Ser
65 70 75 80
Pro Ala Gln Val Ile Pro Leu Ala Asp Tyr Tyr Ile Ile Ala Gly Val
85 90 95
Ile Tyr Gln Ala Pro Asp Leu Gly Ser Val Ile Asn Ser Arg Val Leu
100 105 110
Thr Ala Val His Gly Ile Gln Ser Ala Phe Asp Glu Ala Met Ser Tyr
115 120 125
Cys Arg Tyr His Pro Ser Lys Gly Tyr Trp Trp His Phe Lys Asp His
130 135 140
Glu Glu Gln Asp Lys Val Arg Pro Lys Ala Lys Arg Lys Glu Glu Pro
145 150 155 160
Ser Ser Ile Phe Gln Arg Gln Arg Val Asp Ala Leu Leu Leu Asp Leu
165 170 175
Arg Gln Lys Phe Pro Pro Lys Phe Val Gln Leu Lys Pro Gly Glu Lys
180 185 190
Pro Val Pro Val Asp Gln Thr Lys Lys Glu Ala Glu Pro Ile Pro Glu
195 200 205
Thr Val Lys Pro Glu Glu Lys Glu Thr Thr Lys Asn Val Gln Gln Thr
210 215 220
Val Ser Ala Lys Gly Pro Pro Glu Lys Arg Met Arg Leu Gln
225 230 235

<210> 38
 <211> 202
 <212> PRT
 <213> Homo sapien

<400> 38

Lys	Gly	Ser	Glu	Gly	Glu	Asn	Pro	Leu	Thr	Val	Pro	Gly	Arg	Glu	Lys
1				5					10					15	
Glu	Gly	Met	Leu	Met	Gly	Val	Lys	Pro	Gly	Glu	Asp	Ala	Ser	Gly	Pro
			20					25					30		
Ala	Glu	Asp	Leu	Val	Arg	Arg	Ser	Glu	Lys	Asp	Thr	Ala	Ala	Val	Val
		35					40					45			
Ser	Arg	Gln	Gly	Ser	Ser	Leu	Asn	Leu	Phe	Glu	Asp	Val	Gln	Ile	Thr
50						55				60					
Glu	Pro	Glu	Ala	Glu	Pro	Glu	Ser	Lys	Ser	Glu	Pro	Arg	Pro	Pro	Ile
65					70					75					80
Ser	Ser	Pro	Arg	Ala	Pro	Gln	Thr	Arg	Ala	Val	Lys	Pro	Arg	Leu	His
			85					90						95	
Pro	Val	Lys	Pro	Met	Asn	Ala	Thr	Ala	Thr	Lys	Val	Ala	Asn	Cys	Ser
			100					105					110		
Leu	Gly	Thr	Ala	Thr	Ile	Ile	Gly	Glu	Asn	Leu	Asn	Asn	Glu	Val	Met
		115					120					125			
Met	Lys	Lys	Tyr	Ser	Pro	Ser	Asp	Pro	Ala	Phe	Ala	Tyr	Ala	Gln	Leu
130						135					140				
Thr	His	Asp	Glu	Leu	Ile	Gln	Leu	Val	Leu	Lys	Gln	Lys	Glu	Thr	Ile
145					150					155					160
Ser	Lys	Lys	Glu	Phe	Gln	Val	Arg	Glu	Leu	Glu	Asp	Tyr	Ile	Asp	Asn
			165					170						175	
Leu	Leu	Val	Arg	Val	Met	Glu	Glu	Thr	Pro	Asn	Ile	Leu	Arg	Ile	Pro
			180					185					190		
Thr	Gln	Val	Gly	Lys	Lys	Ala	Gly	Lys	Met						
		195					200								

<210> 39

<211> 243

<212> PRT

<213> Homo sapien

<400> 39

Val	Asn	Ala	Leu	Gly	Ile	Met	Ala	Ala	Val	Asp	Ile	Arg	Asp	Asn	Leu
1				5					10					15	
Leu	Gly	Ile	Ser	Trp	Val	Asp	Ser	Ser	Trp	Ile	Pro	Ile	Leu	Asn	Ser
			20					25					30		
Gly	Ser	Val	Leu	Asp	Tyr	Phe	Ser	Glu	Arg	Ser	Asn	Pro	Phe	Tyr	Asp
		35				40					45				
Arg	Thr	Cys	Asn	Asn	Glu	Val	Val	Lys	Met	Gln	Arg	Leu	Thr	Leu	Glu
50					55					60					
His	Leu	Asn	Gln	Met	Val	Gly	Ile	Glu	Tyr	Ile	Leu	Leu	His	Ala	Gln
65				70					75						80
Glu	Pro	Ile	Leu	Phe	Ile	Ile	Arg	Lys	Gln	Gln	Arg	Gln	Ser	Pro	Ala
			85					90					95		
Gln	Val	Ile	Pro	Leu	Ala	Asp	Tyr	Tyr	Ile	Ile	Ala	Gly	Val	Ile	Tyr
			100					105					110		
Gln	Ala	Pro	Asp	Leu	Gly	Ser	Val	Ile	Asn	Ser	Arg	Val	Leu	Thr	Ala
			115				120					125			
Val	His	Gly	Ile	Gln	Ser	Ala	Phe	Asp	Glu	Ala	Met	Ser	Tyr	Cys	Arg
130						135					140				
Tyr	His	Pro	Ser	Lys	Gly	Tyr	Trp	Trp	His	Phe	Lys	Asp	His	Glu	Glu
145					150					155					160

Gln Asp Lys Val Arg Pro Lys Ala Lys Arg Lys Glu Glu Pro Ser Ser
 165 170 175
 Ile Phe Gln Arg Gln Arg Val Asp Ala Leu Leu Leu Asp Leu Arg Gln
 180 185 190
 Lys Ile Ser Thr Gln Ile Cys Ala Val Asp Gln Thr Lys Lys Glu Ala
 195 200 205
 Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr Thr Lys
 210 215 220
 Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys Arg Met
 225 230 235 240
 Arg Leu Gln

<210> 40
 <211> 245
 <212> PRT
 <213> Homo sapien

<400> 40
 Ala Ala Val Asp Ile Arg Asp Asn Leu Leu Gly Ile Ser Trp Val Asp
 1 5 10 15
 Ser Ser Trp Ile Pro Ile Leu Asn Ser Gly Ser Val Leu Asp Tyr Phe
 20 25 30
 Ser Glu Arg Ser Asn Pro Phe Tyr Asp Arg Thr Cys Asn Asn Glu Val
 35 40 45
 Val Lys Met Gln Arg Leu Thr Leu Glu His Leu Asn Gln Met Val Gly
 50 55 60
 Ile Glu Tyr Ile Leu Leu His Ala Gln Glu Pro Ile Leu Phe Ile Ile
 65 70 75 80
 Arg Lys Gln Gln Arg Gln Ser Pro Ala Gln Val Ile Pro Leu Ala Asp
 85 90 95
 Tyr Tyr Ile Ile Ala Gly Val Ile Tyr Gln Ala Pro Asp Leu Gly Ser
 100 105 110
 Val Ile Asn Ser Arg Val Leu Thr Ala Val His Gly Ile Gln Ser Ala
 115 120 125
 Phe Asp Glu Ala Met Ser Tyr Cys Arg Tyr His Pro Ser Lys Gly Tyr
 130 135 140
 Trp Trp His Phe Lys Asp His Glu Glu Gln Asp Lys Val Arg Pro Lys
 145 150 155 160
 Ala Lys Arg Lys Glu Glu Pro Ser Ser Ile Phe Gln Arg Gln Arg Val
 165 170 175
 Asp Ala Leu Leu Leu Asp Leu Arg Gln Lys Phe Pro Pro Lys Phe Val
 180 185 190
 Gln Leu Lys Pro Gly Glu Lys Pro Val Pro Val Asp Gln Thr Lys Lys
 195 200 205
 Glu Ala Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr
 210 215 220
 Thr Lys Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys
 225 230 235 240
 Arg Met Arg Leu Gln
 245

<210> 41
 <211> 163

<212> PRT

<213> Homo sapien

<400> 41

Gly	Glu	Arg	Gln	Gly	Leu	Val	Ala	Arg	Ala	Arg	Leu	Ser	Leu	Arg	Pro
1				5					10					15	
Ser	Ile	Pro	Glu	Leu	Ser	Glu	Arg	Thr	Ser	Arg	Pro	Cys	Arg	Ala	Ser
			20					25					30		
Pro	Ala	Ser	Leu	Pro	Ser	Gln	His	Thr	Ser	Ser	Pro	Ala	Gln	Ala	Arg
		35					40					45			
Val	Arg	Asn	Leu	Ala	Gln	Ser	Thr	Phe	Pro	Leu	Ala	Ala	Gln	Glu	Thr
	50					55					60				
Pro	Gly	Arg	Ala	Pro	Ala	His	Ala	Pro	Leu	Ser	Ser	Phe	Val	Pro	Gly
65					70					75					80
Val	Gly	Gly	Arg	Ser	Pro	Ala	Ser	Val	Gly	Ile	Ser	Ala	Pro	Gly	Gly
			85						90					95	
Gly	Pro	Ser	Gly	Ala	Ala	Ala	Lys	Ile	Pro	Leu	Glu	Leu	Thr	Gln	Ser
			100					105					110		
Arg	Val	Gln	Lys	Ile	Trp	Val	Pro	Val	Asp	His	Arg	Pro	Ser	Leu	Pro
		115					120					125			
Arg	Ser	Cys	Gly	Pro	Lys	Leu	Thr	Asn	Ser	Pro	Ala	Val	Phe	Val	Met
	130					135					140				
Val	Gly	Leu	Pro	Arg	Pro	Gly	Gln	Asp	Leu	Leu	Leu	His	Glu	Ser	Leu
145					150					155					160
Leu	Ala	Ala													

<210> 42

<211> 243

<212> PRT

<213> Homo sapien

<400> 42

Val	Asp	Ile	Arg	Asp	Asn	Leu	Leu	Gly	Ile	Ser	Trp	Val	Asp	Ser	Ser
1				5					10					15	
Trp	Ile	Pro	Ile	Leu	Asn	Ser	Gly	Ser	Val	Leu	Asp	Tyr	Phe	Ser	Glu
			20					25					30		
Arg	Ser	Asn	Pro	Phe	Tyr	Asp	Arg	Thr	Cys	Asn	Asn	Glu	Val	Val	Lys
		35					40					45			
Met	Gln	Arg	Leu	Thr	Leu	Glu	His	Leu	Asn	Gln	Met	Val	Gly	Ile	Glu
	50					55					60				
Tyr	Ile	Leu	Leu	His	Ala	Gln	Glu	Pro	Ile	Leu	Phe	Ile	Ile	Arg	Lys
65				70						75					80
Gln	Gln	Arg	Gln	Ser	Pro	Ala	Gln	Val	Ile	Pro	Leu	Ala	Asp	Tyr	Tyr
			85						90					95	
Ile	Ile	Ala	Gly	Val	Ile	Tyr	Gln	Ala	Pro	Asp	Leu	Gly	Ser	Val	Ile
			100					105					110		
Asn	Ser	Arg	Val	Leu	Thr	Ala	Val	His	Gly	Ile	Gln	Ser	Ala	Phe	Asp
		115					120					125			
Glu	Ala	Met	Ser	Tyr	Cys	Arg	Tyr	His	Pro	Ser	Lys	Gly	Tyr	Trp	Trp
	130					135					140				
His	Phe	Lys	Asp	His	Glu	Glu	Gln	Asp	Lys	Val	Arg	Pro	Lys	Ala	Lys
145					150					155					160
Arg	Lys	Glu	Glu	Pro	Ser	Ser	Ile	Phe	Gln	Arg	Gln	Arg	Val	Asp	Ala


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<210> 43
<211> 244
<212> PRT
<213> Homo sapien
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<210> 44
<211> 109
<212> PRT
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<213> Homo sapien

<400> 44

Glu	Leu	His	Phe	Ser	Glu	Phe	Thr	Ser	Ala	Val	Ala	Asp	Met	Lys	Asn
1				5					10					15	
Ser	Val	Ala	Asp	Arg	Asp	Asn	Ser	Pro	Ser	Ser	Cys	Ala	Gly	Leu	Phe
			20					25					30		
Ile	Ala	Ser	His	Ile	Gly	Phe	Asp	Trp	Pro	Gly	Val	Trp	Val	His	Leu
		35					40					45			
Asp	Ile	Ala	Ala	Pro	Val	His	Ala	Gly	Glu	Arg	Ala	Thr	Gly	Phe	Gly
	50					55					60				
Val	Ala	Leu	Leu	Leu	Ala	Leu	Phe	Gly	Arg	Ala	Ser	Glu	Asp	Pro	Leu
65					70					75					80
Leu	Asn	Leu	Val	Ser	Pro	Leu	Asp	Cys	Glu	Val	Asp	Ala	Gln	Glu	Gly
				85					90					95	
Asp	Asn	Met	Gly	Arg	Asp	Ser	Lys	Arg	Arg	Arg	Leu	Val			
			100					105							

<210> 45

<211> 324

<212> PRT

<213> Homo sapien

<400> 45

Arg	Arg	Pro	Val	Met	Ala	Gln	Glu	Thr	Ala	Pro	Pro	Cys	Gly	Pro	Val
1				5					10					15	
Ser	Arg	Gly	Asp	Ser	Pro	Ile	Ile	Glu	Lys	Met	Glu	Lys	Arg	Thr	Cys
			20					25					30		
Ala	Leu	Cys	Pro	Glu	Gly	His	Glu	Trp	Ser	Gln	Ile	Tyr	Phe	Ser	Pro
		35					40					45			
Ser	Gly	Asn	Ile	Val	Ala	His	Glu	Asn	Cys	Leu	Leu	Tyr	Ser	Ser	Gly
	50					55					60				
Leu	Val	Glu	Cys	Glu	Thr	Leu	Asp	Leu	Arg	Asn	Thr	Ile	Arg	Asn	Phe
65					70					75					80
Asp	Val	Lys	Ser	Val	Lys	Lys	Glu	Ile	Trp	Arg	Gly	Arg	Arg	Leu	Lys
				85					90					95	
Cys	Ser	Phe	Cys	Asn	Lys	Gly	Gly	Ala	Thr	Val	Gly	Cys	Asp	Leu	Trp
			100					105					110		
Phe	Cys	Lys	Lys	Ser	Tyr	His	Tyr	Val	Cys	Ala	Lys	Lys	Asp	Gln	Ala
		115					120						125		
Ile	Leu	Gln	Val	Asp	Gly	Asn	His	Gly	Thr	Tyr	Lys	Leu	Phe	Cys	Pro
	130					135						140			
Glu	His	Ser	Pro	Glu	Gln	Glu	Glu	Ala	Thr	Glu	Ser	Ala	Asp	Asp	Pro
145					150					155					160
Ser	Met	Lys	Lys	Lys	Arg	Gly	Lys	Asn	Lys	Arg	Leu	Ser	Ser	Gly	Pro
				165					170					175	
Pro	Ala	Gln	Pro	Lys	Thr	Met	Lys	Cys	Ser	Asn	Ala	Lys	Arg	His	Met
			180					185					190		
Thr	Glu	Glu	Pro	His	Gly	His	Thr	Asp	Ala	Ala	Val	Lys	Ser	Pro	Phe
		195					200						205		
Leu	Lys	Lys	Cys	Gln	Glu	Ala	Gly	Leu	Leu	Thr	Glu	Leu	Phe	Glu	His
	210					215					220				
Ile	Leu	Glu	Asn	Met	Asp	Ser	Val	His	Gly	Arg	Leu	Val	Asp	Glu	Thr
225					230					235					240

Ala	Ser	Glu	Ser	Asp	Tyr	Glu	Gly	Ile	Glu	Thr	Leu	Leu	Phe	Asp	Cys
				245					250					255	
Gly	Leu	Phe	Lys	Asp	Thr	Leu	Arg	Lys	Phe	Gln	Glu	Val	Ile	Lys	Ser
			260					265					270		
Lys	Ala	Cys	Glu	Trp	Glu	Glu	Arg	Gln	Arg	Gln	Met	Lys	Gln	Gln	Leu
		275					280					285			
Glu	Ala	Leu	Ala	Asp	Leu	Gln	Gln	Ser	Leu	Cys	Ser	Phe	Gln	Glu	Asn
	290					295				300					
Gly	Asp	Leu	Asp	Cys	Ser	Ser	Ser	Thr	Ser	Gly	Ser	Leu	Leu	Pro	Pro
305					310					315					320
Glu	Asp	His	Gln												

<210> 46

<211> 244

<212> PRT

<213> Homo sapien

<400> 46

Ala	Val	Asp	Ile	Arg	Asp	Asn	Leu	Leu	Gly	Ile	Ser	Trp	Val	Asp	Ser
1				5					10					15	
Ser	Trp	Ile	Pro	Ile	Leu	Asn	Ser	Gly	Ser	Val	Leu	Asp	Tyr	Phe	Ser
			20					25					30		
Glu	Arg	Ser	Asn	Pro	Phe	Tyr	Asp	Arg	Thr	Cys	Asn	Asn	Glu	Val	Val
		35					40					45			
Lys	Met	Gln	Arg	Leu	Thr	Leu	Glu	His	Leu	Asn	Gln	Met	Val	Gly	Ile
	50					55					60				
Glu	Tyr	Ile	Leu	Leu	His	Ala	Gln	Glu	Pro	Ile	Leu	Phe	Ile	Ile	Arg
65					70					75					80
Lys	Gln	Gln	Arg	Gln	Ser	Pro	Ala	Gln	Val	Ile	Pro	Leu	Ala	Asp	Tyr
			85						90					95	
Tyr	Ile	Ile	Ala	Gly	Val	Ile	Tyr	Gln	Ala	Pro	Asp	Leu	Gly	Ser	Val
			100					105					110		
Ile	Asn	Ser	Arg	Val	Leu	Thr	Ala	Val	His	Gly	Ile	Gln	Ser	Ala	Phe
		115					120					125			
Asp	Glu	Ala	Met	Ser	Tyr	Cys	Arg	Tyr	His	Pro	Ser	Lys	Gly	Tyr	Trp
	130					135					140				
Trp	His	Phe	Lys	Asp	His	Glu	Glu	Gln	Asp	Lys	Val	Arg	Pro	Lys	Ala
145				150						155					160
Lys	Arg	Lys	Glu	Glu	Pro	Ser	Ser	Ile	Phe	Gln	Arg	Gln	Arg	Val	Asp
			165						170					175	
Ala	Leu	Leu	Leu	Asp	Leu	Arg	Gln	Lys	Phe	Pro	Pro	Lys	Phe	Val	Gln
			180					185					190		
Leu	Lys	Pro	Gly	Glu	Lys	Pro	Val	Pro	Val	Asp	Gln	Thr	Lys	Lys	Glu
	195						200					205			
Ala	Glu	Pro	Ile	Pro	Glu	Thr	Val	Lys	Pro	Glu	Glu	Lys	Glu	Thr	Thr
	210					215					220				
Lys	Asn	Val	Gln	Gln	Thr	Val	Ser	Ala	Lys	Gly	Pro	Pro	Glu	Lys	Arg
225					230					235					240
Met	Arg	Leu	Gln												

<210> 47

<211> 14

<212> DNA
<213> Homo sapien

<400> 47
tttttttttt ttag 14

<210> 48
<211> 10
<212> DNA
<213> Homo sapien

<400> 48
cttcaacctc 10

<210> 49
<211> 496
<212> DNA
<213> Homo sapien

<400> 49
gcaccatgta ccgagcactt cggctcctcg cgcgctcgcg tcccctcgtg cgggctccag 60
ccgcagcctt agcttcgggt cccggcttgg gtggcgcggc cgtgccctcg ttttggcctc 120
cgaacgcggc tcgaatggca agccaaaatt ccttcggat agaataatgat acctttggtg 180
aactaaaggt gccaaatgat aagtattatg gcgcccagac cgtgagatct acgatgaact 240
ttaagattgg aggtgtgaca gaacgcgatgc caaccccagt tattaaagct tttggcatct 300
tgaagcgagc ggccgctgaa gtaaaccagg attatgggtct tgatccaaag attgctaatt 360
caataatgaa ggcagcagat gaggtagctg aaggtaaatt aaatgatcat tttcctctcg 420
tggtatggca gactggatca ggaactcaga caaatatgaa tgtaaataag gtcattagcc 480
aatagagcaa ttgaaa 496

<210> 50
<211> 499
<212> DNA
<213> Homo sapien

<400> 50
agaaaaagtc tatgttttgca gaaatacaga tccaagacaa agacaggatg ggcactgctg 60
gaaaagtatt taaatgcaaa gcagctgtgc tttgggagca gaagcaaccc ttctccattg 120
aggaaataga agttgcccc acaaagacta aagaagtctg cattaagatt ttggccacag 180
gaatctgtcg cacagatgac catgtgataa aaggaacaat ggtgtccaag tttccagtga 240
ttgtgggaca tgaggcaact gggattgtag agagcattgg agaaggagt actacagtga 300
aaccaggtga caaagtcac cctctctttc tgccacaatg tagagaatgc aatgcttgct 360
gcaaccacaga tggcaacctt tgcattagga gcgatattac tggtcgtgga gtactggctg 420
atggcaccac cagattttaca tgcaagggcg aaccagtcga ccacttcattg aacaccagta 480
catttaccga gtacacagt 499

<210> 51
<211> 887
<212> DNA
<213> Homo sapien

<400> 51
gagtctgagc agaaaggaaa agcagccttg gcagccacgt tagaggaata caaagccaca 60
gtggccagtg accagataga gatgaatcgc ctgaaggctc agctggagaa tgaaaagcag 120

aaagtggcag	agctgtattc	tatccataac	tctggagaca	aatctgatat	tcaggacctc	180
ctggagagtg	tcaggcttga	caaagaaaaa	gcagagactt	tggctagtag	cttgcaggaa	240
gatctggctc	atacccgaaa	tgatgccaat	cgattacagg	atgccattgc	taaggtagag	300
gatgaatacc	gagccttcca	agaagaagct	aagaaacaaa	ttgaagattt	gaatatgacg	360
ttagaaaaat	taagatcaga	cctggatgaa	aaagaaacag	aaaggagtga	catgaaagaa	420
accatctttg	aacttgaaga	tgaagtagaa	caacatcgtg	ctgtgaaact	tcattgacaac	480
ctcattattt	ctgatctaga	gaatacagtt	aaaaaactcc	aggaccaaaa	gcacgacatg	540
gaaagagaaa	taaagacact	ccacagaaga	cttcgggaag	aatctgcgga	atggcggcag	600
tttcaggctg	atctccagac	tgcagtagtc	attgcaaattg	acattaaatc	tgaagcccaa	660
gaggagattg	gtgatctaaa	gcgcccgtta	catgaggctc	aagaaaaaaa	tgagaaactc	720
acaaaagaat	tggaggaaat	aaagtcacgc	aagcaagagg	aggagcgagg	cgggtataca	780
attacatgaa	tgccgttgag	agagatttgg	cagccttaag	gcagggaatg	ggactgagta	840
gaaggtcctc	gacttcctca	gagccaactc	ctacagtaaa	aaccctc		887

<210> 52

<211> 491

<212> DNA

<213> Homo sapien

<400> 52

ggcacgagct	tttccaaaaa	tcattgctgct	cctttctcta	aagttcttac	attttataga	60
aaggaacctt	tcactcttga	ggcctactac	agctctcctc	aggatttgcc	ctatccagat	120
cctgctatag	ctcagttttc	agttcagaaa	gtcactcctc	agtctgatgg	ctccagttca	180
aaagtgaag	tcaaagttcg	agtaaatgtc	catggcattt	tcagtgtgtc	cagtgcattc	240
ttagtggagg	ttcacaagtc	tgaggaaaat	gaggagccaa	tggaaacaga	tcagaatgca	300
aaggaggaag	agaagatgca	agtgaccag	gaggaaccac	atgttgaaga	gcaacagcag	360
cagacaccag	gcagaaaata	aggcagagtc	tgaagaaatg	gagacctctc	aagctggatc	420
caaggataaa	aagatggacc	aaccacccca	agccaagaag	gcaaaagtga	agaccagtac	480
tgtggacctg	g					491

<210> 53

<211> 787

<212> DNA

<213> Homo sapien

<400> 53

aagcagttga	gtaggcagaa	aaaagaacct	cttcattaag	gattaaaatg	tataggccag	60
cacgtgtaac	ttcgacttca	agatttctga	atccatatgt	agtatgtttc	attgtcgtcg	120
caggggtagt	gaccttgga	gtcaccatag	ctctacttgt	ttacttttta	gcttttgatc	180
aaaaatctta	cttttatagg	agcagttttc	aactcctaaa	tgttgaatat	aatagtcagt	240
taaattcacc	agctacacag	gaatacagga	ctttgagtgg	aagaattgaa	tctctgatta	300
ctaaaacatt	caaagaatca	aatttaagaa	atcagttcat	cagagctcat	gttgccaaac	360
tgaggcaaga	tggtagtgg	gtgagagcgg	atgttgatc	gaaatttcaa	ttcactagaa	420
ataacaatgg	agcatcaatg	aaaagcagaa	ttgagtctgt	tttacgacaa	atgctgaata	480
actctggaaa	cctggaaata	aacccttcaa	ctgagataac	atcacttact	gaccaggctg	540
cagcaaattg	gcttattaat	gaatgtgggg	ccgggtccaga	cctaataaca	ttgtctgagc	600
agagaatcct	tggaggcact	gaggctgagg	agggaagctg	gccgtggcaa	gtcagtctgc	660
ggctcaataa	tgcccaccac	tgtggaggca	gcctgatcaa	taacatgtgg	atcctgacag	720
cagctcactg	cttcagaagc	aactctaata	ctcgtgactg	gattgccacg	tctggtattt	780
ccacaac						787

<210> 54

<211> 386

<212> DNA

<213> Homo sapien

<400> 54

ggcatttttca	gtgtgtccag	tgcattcttta	gtggagggttc	acaagtctga	ggaaaatgag	60
gagccaatgg	aaacagatca	gaatgcaaag	gaggaagaga	agatgcaagt	ggaccaggag	120
gaaccacatg	ttgaagagca	acagcagcag	acaccagcag	aaaataaggc	agagtctgaa	180
gaaatggaga	cctctcaagc	tggatccaag	gataaaaaga	tggaccaacc	acccaagcc	240
aagaaggcaa	aagtgaagac	cagtactgtg	gacctgccaa	tcgagaatca	gctattatgg	300
cagatagaca	gagagatgct	caacttgtac	attgaaaatg	agggtaagat	gatcatgcag	360
gataaactgg	agaaggagcg	gaatga				386

<210> 55

<211> 1462

<212> DNA

<213> Homo sapien

<400> 55

aagcagttga	gtaggcagaa	aaaagaacct	cttcattaag	gattaaaatg	tataggccag	60
cacgtgtaac	ttcgacttca	agatttctga	atccatatgt	agtatgtttc	attgtcgtcg	120
caggggtagt	gacctgggca	gtcaccatag	ctctacttgt	ttacttttta	gcttttgatc	180
aaaaatctta	cttttatagg	agcagttttc	aactcctaaa	tgttgaatat	aatagtcagt	240
taaattcacc	agctacacag	gaatacagga	ctttgagtgg	aagaattgaa	tctctgatta	300
ctaaaacatt	caaagaatca	aatttaagaa	atcagttcat	cagagctcat	gttgccaaac	360
tgaggcaaga	tggtagtggg	gtgagagcgg	atgttgatcat	gaaatttcaa	ttcactagaa	420
ataacaatgg	agcatcaatg	aaaagcagaa	ttgagtctgt	tttacgacaa	atgctgaata	480
actctggaaa	cctggaaata	aacccttcaa	ctgagataac	atcacttact	gaccaggctg	540
cagcaaattg	gcttattaat	gaatgtgggg	cgggtccaga	cctaataaca	ttgtctgagc	600
agagaatcct	tggaggcact	gaggctgagg	aggggaagctg	gccgtggcaa	gtcagtctgc	660
ggctcaataa	tgcccaccac	tgtggaggca	gcctgatcaa	taacatgtgg	atcctgacag	720
cagctcactg	cttcagaagc	aactctaata	ctcgtgactg	gattgccacg	tctgggtattt	780
ccacaacatt	tcctaaacta	agaatgagag	taagaaatat	tttaattcat	aacaattata	840
aatctgcaac	tcattgaaaat	gacattgcac	ttgtgagact	tgagaacagt	gtcaccttta	900
ccaaagatat	ccatagtgtg	tgtctcccag	ctgctaccca	gaatattcca	cctgggtcta	960
ctgcttatgt	aacaggatgg	ggcgtctcaag	aatatgctgg	ccacacagtt	ccagagctaa	1020
ggcaaggaca	ggtcagaata	ataagtaatg	atgtatgtaa	tgcaccacat	agttataatg	1080
gagccatctt	gtctggaatg	ctgtgtgctg	gagtacctca	aggtggagtg	gacgcatgtc	1140
agggtgactc	tgggtggccca	ctagtacaag	aagactcacg	gcggcttttg	tttattgtgg	1200
ggatagtaag	ctggggagat	cagtgtggcc	tgcgggataa	gccaggagtg	tatactcgag	1260
tgacagcata	cattgactgg	attaggcaac	aaactgggat	ctagtgcaac	aagtgcattc	1320
ctgttgcaaa	gtctgtatgc	aggtgtgcct	gtcttaaat	ccaaagcttt	acatttcaac	1380
tgaaaaagaa	actagaaatg	tcctaattta	acatcttggt	acataaatat	ggtttaacaa	1440
aaaaaaaaaa	aaaaaactcg	ag				1462

<210> 56

<211> 159

<212> PRT

<213> Homo sapien

<400> 56

Thr	Met	Tyr	Arg	Ala	Leu	Arg	Leu	Leu	Ala	Arg	Ser	Arg	Pro	Leu	Val
1				5					10					15	
Arg	Ala	Pro	Ala	Ala	Ala	Leu	Ala	Ser	Ala	Pro	Gly	Leu	Gly	Gly	Ala
			20					25					30		
Ala	Val	Pro	Ser	Phe	Trp	Pro	Pro	Asn	Ala	Ala	Arg	Met	Ala	Ser	Gln

		35					40				45						
Asn	Ser	Phe	Arg	Ile	Glu	Tyr	Asp	Thr	Phe	Gly	Glu	Leu	Lys	Val	Pro		
	50					55					60						
Asn	Asp	Lys	Tyr	Tyr	Gly	Ala	Gln	Thr	Val	Arg	Ser	Thr	Met	Asn	Phe		
65					70					75					80		
Lys	Ile	Gly	Gly	Val	Thr	Glu	Arg	Met	Pro	Thr	Pro	Val	Ile	Lys	Ala		
				85					90					95			
Phe	Gly	Ile	Leu	Lys	Arg	Ala	Ala	Ala	Glu	Val	Asn	Gln	Asp	Tyr	Gly		
			100					105					110				
Leu	Asp	Pro	Lys	Ile	Ala	Asn	Ala	Ile	Met	Lys	Ala	Ala	Asp	Glu	Val		
		115					120					125					
Ala	Glu	Gly	Lys	Leu	Asn	Asp	His	Phe	Pro	Leu	Val	Val	Trp	Gln	Thr		
	130					135					140						
Gly	Ser	Gly	Thr	Gln	Thr	Asn	Met	Asn	Val	Asn	Glu	Val	Ile	Ser			
145					150					155							

<210> 57
 <211> 165
 <212> PRT
 <213> Homo sapien

Lys	Lys	Ser	Met	Phe	Ala	Glu	Ile	Gln	Ile	Gln	Asp	Lys	Asp	Arg	Met		
1				5					10					15			
Gly	Thr	Ala	Gly	Lys	Val	Ile	Lys	Cys	Lys	Ala	Ala	Val	Leu	Trp	Glu		
			20					25					30				
Gln	Lys	Gln	Pro	Phe	Ser	Ile	Glu	Glu	Ile	Glu	Val	Ala	Pro	Pro	Lys		
		35					40					45					
Thr	Lys	Glu	Val	Arg	Ile	Lys	Ile	Leu	Ala	Thr	Gly	Ile	Cys	Arg	Thr		
	50					55					60						
Asp	Asp	His	Val	Ile	Lys	Gly	Thr	Met	Val	Ser	Lys	Phe	Pro	Val	Ile		
65				70						75					80		
Val	Gly	His	Glu	Ala	Thr	Gly	Ile	Val	Glu	Ser	Ile	Gly	Glu	Gly	Val		
			85						90					95			
Thr	Thr	Val	Lys	Pro	Gly	Asp	Lys	Val	Ile	Pro	Leu	Phe	Leu	Pro	Gln		
		100						105					110				
Cys	Arg	Glu	Cys	Asn	Ala	Cys	Arg	Asn	Pro	Asp	Gly	Asn	Leu	Cys	Ile		
	115						120					125					
Arg	Ser	Asp	Ile	Thr	Gly	Arg	Gly	Val	Leu	Ala	Asp	Gly	Thr	Thr	Arg		
	130					135					140						
Phe	Thr	Cys	Lys	Gly	Glu	Pro	Val	His	His	Phe	Met	Asn	Thr	Ser	Thr		
145					150					155					160		
Phe	Thr	Glu	Tyr	Thr													
				165													

<210> 58
 <211> 259
 <212> PRT
 <213> Homo sapien

Glu	Ser	Glu	Gln	Lys	Gly	Lys	Ala	Ala	Leu	Ala	Ala	Thr	Leu	Glu	Glu		
1				5					10					15			
Tyr	Lys	Ala	Thr	Val	Ala	Ser	Asp	Gln	Ile	Glu	Met	Asn	Arg	Leu	Lys		

			20					25					30				
Ala	Gln	Leu	Glu	Asn	Glu	Lys	Gln	Lys	Val	Ala	Glu	Leu	Tyr	Ser	Ile		
		35					40					45					
His	Asn	Ser	Gly	Asp	Lys	Ser	Asp	Ile	Gln	Asp	Leu	Leu	Glu	Ser	Val		
	50					55					60						
Arg	Leu	Asp	Lys	Glu	Lys	Ala	Glu	Thr	Leu	Ala	Ser	Ser	Leu	Gln	Glu		
65					70					75					80		
Asp	Leu	Ala	His	Thr	Arg	Asn	Asp	Ala	Asn	Arg	Leu	Gln	Asp	Ala	Ile		
			85					90					95				
Ala	Lys	Val	Glu	Asp	Glu	Tyr	Arg	Ala	Phe	Gln	Glu	Glu	Ala	Lys	Lys		
		100						105					110				
Gln	Ile	Glu	Asp	Leu	Asn	Met	Thr	Leu	Glu	Lys	Leu	Arg	Ser	Asp	Leu		
	115						120					125					
Asp	Glu	Lys	Glu	Thr	Glu	Arg	Ser	Asp	Met	Lys	Glu	Thr	Ile	Phe	Glu		
	130					135					140						
Leu	Glu	Asp	Glu	Val	Glu	Gln	His	Arg	Ala	Val	Lys	Leu	His	Asp	Asn		
145					150					155					160		
Leu	Ile	Ile	Ser	Asp	Leu	Glu	Asn	Thr	Val	Lys	Lys	Leu	Gln	Asp	Gln		
			165						170					175			
Lys	His	Asp	Met	Glu	Arg	Glu	Ile	Lys	Thr	Leu	His	Arg	Arg	Leu	Arg		
		180						185					190				
Glu	Glu	Ser	Ala	Glu	Trp	Arg	Gln	Phe	Gln	Ala	Asp	Leu	Gln	Thr	Ala		
	195						200					205					
Val	Val	Ile	Ala	Asn	Asp	Ile	Lys	Ser	Glu	Ala	Gln	Glu	Glu	Ile	Gly		
	210					215					220						
Asp	Leu	Lys	Arg	Arg	Leu	His	Glu	Ala	Gln	Glu	Lys	Asn	Glu	Lys	Leu		
225					230					235					240		
Thr	Lys	Glu	Leu	Glu	Glu	Ile	Lys	Ser	Arg	Lys	Gln	Glu	Glu	Glu	Arg		
			245					250					255				

Gly Gly Tyr

<210> 59

<211> 125

<212> PRT

<213> Homo sapien

<400> 59

Gly	Thr	Ser	Phe	Ser	Lys	Asn	His	Ala	Ala	Pro	Phe	Ser	Lys	Val	Leu		
1				5				10						15			
Thr	Phe	Tyr	Arg	Lys	Glu	Pro	Phe	Thr	Leu	Glu	Ala	Tyr	Tyr	Ser	Ser		
		20						25					30				
Pro	Gln	Asp	Leu	Pro	Tyr	Pro	Asp	Pro	Ala	Ile	Ala	Gln	Phe	Ser	Val		
	35						40					45					
Gln	Lys	Val	Thr	Pro	Gln	Ser	Asp	Gly	Ser	Ser	Ser	Lys	Val	Lys	Val		
	50					55					60						
Lys	Val	Arg	Val	Asn	Val	His	Gly	Ile	Phe	Ser	Val	Ser	Ser	Ala	Ser		
65				70						75					80		
Leu	Val	Glu	Val	His	Lys	Ser	Glu	Glu	Asn	Glu	Glu	Pro	Met	Glu	Thr		
			85					90					95				
Asp	Gln	Asn	Ala	Lys	Glu	Glu	Glu	Lys	Met	Gln	Val	Asp	Gln	Glu	Glu		
		100						105					110				
Pro	His	Val	Glu	Glu	Gln	Gln	Gln	Gln	Thr	Pro	Gly	Arg					
		115					120					125					

<210> 60
 <211> 246
 <212> PRT
 <213> Homo sapien

<400> 60
 Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro
 1 5 10 15
 Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val
 20 25 30
 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr
 35 40 45
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln
 50 55 60
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile
 65 70 75 80
 Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln
 85 90 95
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val
 100 105 110
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly
 115 120 125
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn
 130 135 140
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu
 145 150 155 160
 Thr Asp Gln Ala Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly
 165 170 175
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu
 180 185 190
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn
 195 200 205
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr
 210 215 220
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala
 225 230 235 240
 Thr Ser Gly Ile Ser Thr
 245

<210> 61
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 61
 Gly Ile Phe Ser Val Ser Ser Ala Ser Leu Val Glu Val His Lys Ser
 1 5 10 15
 Glu Glu Asn Glu Glu Pro Met Glu Thr Asp Gln Asn Ala Lys Glu Glu
 20 25 30
 Glu Lys Met Gln Val Asp Gln Glu Glu Pro His Val Glu Glu Gln Gln
 35 40 45
 Gln Gln Thr Pro Ala Glu Asn Lys Ala Glu Ser Glu Glu Met Glu Thr
 50 55 60

Ser	Gln	Ala	Gly	Ser	Lys	Asp	Lys	Lys	Met	Asp	Gln	Pro	Pro	Gln	Ala
65					70					75					80
Lys	Lys	Ala	Lys	Val	Lys	Thr	Ser	Thr	Val	Asp	Leu	Pro	Ile	Glu	Asn
				85					90					95	
Gln	Leu	Leu	Trp	Gln	Ile	Asp	Arg	Glu	Met	Leu	Asn	Leu	Tyr	Ile	Glu
			100					105					110		
Asn	Glu	Gly	Lys	Met	Ile	Met	Gln	Asp	Lys	Leu	Glu	Lys	Glu	Arg	Asn
		115					120					125			

<210> 62

<211> 418

<212> PRT

<213> Homo sapien

<400> 62

Met	Tyr	Arg	Pro	Ala	Arg	Val	Thr	Ser	Thr	Ser	Arg	Phe	Leu	Asn	Pro
1				5					10					15	
Tyr	Val	Val	Cys	Phe	Ile	Val	Val	Ala	Gly	Val	Val	Ile	Leu	Ala	Val
			20					25					30		
Thr	Ile	Ala	Leu	Leu	Val	Tyr	Phe	Leu	Ala	Phe	Asp	Gln	Lys	Ser	Tyr
		35					40					45			
Phe	Tyr	Arg	Ser	Ser	Phe	Gln	Leu	Leu	Asn	Val	Glu	Tyr	Asn	Ser	Gln
	50					55				60					
Leu	Asn	Ser	Pro	Ala	Thr	Gln	Glu	Tyr	Arg	Thr	Leu	Ser	Gly	Arg	Ile
65					70					75					80
Glu	Ser	Leu	Ile	Thr	Lys	Thr	Phe	Lys	Glu	Ser	Asn	Leu	Arg	Asn	Gln
			85						90					95	
Phe	Ile	Arg	Ala	His	Val	Ala	Lys	Leu	Arg	Gln	Asp	Gly	Ser	Gly	Val
			100					105					110		
Arg	Ala	Asp	Val	Val	Met	Lys	Phe	Gln	Phe	Thr	Arg	Asn	Asn	Asn	Gly
		115					120					125			
Ala	Ser	Met	Lys	Ser	Arg	Ile	Glu	Ser	Val	Leu	Arg	Gln	Met	Leu	Asn
	130					135						140			
Asn	Ser	Gly	Asn	Leu	Glu	Ile	Asn	Pro	Ser	Thr	Glu	Ile	Thr	Ser	Leu
145					150					155					160
Thr	Asp	Gln	Ala	Ala	Ala	Asn	Trp	Leu	Ile	Asn	Glu	Cys	Gly	Ala	Gly
			165					170						175	
Pro	Asp	Leu	Ile	Thr	Leu	Ser	Glu	Gln	Arg	Ile	Leu	Gly	Gly	Thr	Glu
			180					185					190		
Ala	Glu	Glu	Gly	Ser	Trp	Pro	Trp	Gln	Val	Ser	Leu	Arg	Leu	Asn	Asn
	195						200					205			
Ala	His	His	Cys	Gly	Gly	Ser	Leu	Ile	Asn	Asn	Met	Trp	Ile	Leu	Thr
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Ala	Ala	His	Cys	Phe	Arg	Ser	Asn	Ser	Asn	Pro	Arg	Asp	Trp	Ile	Ala
225					230					235					240
Thr	Ser	Gly	Ile	Ser	Thr	Thr	Phe	Pro	Lys	Leu	Arg	Met	Arg	Val	Arg
			245						250					255	
Asn	Ile	Leu	Ile	His	Asn	Asn	Tyr	Lys	Ser	Ala	Thr	His	Glu	Asn	Asp
		260						265					270		
Ile	Ala	Leu	Val	Arg	Leu	Glu	Asn	Ser	Val	Thr	Phe	Thr	Lys	Asp	Ile
		275					280					285			
His	Ser	Val	Cys	Leu	Pro	Ala	Ala	Thr	Gln	Asn	Ile	Pro	Pro	Gly	Ser
	290					295					300				
Thr	Ala	Tyr	Val	Thr	Gly	Trp	Gly	Ala	Gln	Glu	Tyr	Ala	Gly	His	Thr

305 310 315 320
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val
 325 330 335
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu
 340 345 350
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser
 355 360 365
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val
 370 375 380
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 385 390 395 400
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 405 410 415
 Gly Ile

<210> 63
 <211> 776
 <212> DNA
 <213> Homo sapien

<400> 63
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 aacagaaatt acaggagcag ccagcaacag atggaggctc aagataagag tcgcaaggaa 180
 aactagccaa ctgaaggaga agctgcagat ggagagagaa cacctactga gagagcagat 240
 tatgatgttg gagcacacgc agaagggtcca aaatgattgg cttcatgaag gatttaagaa 300
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 aatattgtct gctcctgcta aattaattgg tcatgggtgtc aaagggtgtga gctcactctt 480
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 ctgggttcaa gagattcacc tgcctcagcc ccctagtagc tgggattata ggtgtacacc 720
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<210> 64
 <211> 160
 <212> DNA
 <213> Homo sapien

<400> 64
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 cgtgtcctgt ctcggtggcc ggacccgggc ccgagcccga 160

<210> 65
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 65
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			20					25					30		
Ala	Ser	Gly	Ser	Leu	Val	Ala	Thr	Leu	Gln	Ser	Leu	Gly	Ala	Thr	Gly
		35					40					45			
Leu	Ser	Gly	Leu	Thr	Lys	Phe	Ile	Leu	Gly	Ser	Ile	Gly	Ser	Ala	Ile
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<210> 66

<211> 2581

<212> DNA

<213> Homo sapien

<400> 66

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gctggacagc	tggaggatga	acggagaagc	cgactgcccc	acagacctgg	aaatggccgc	180
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cctgacccct	tatttccgct	tcttcatgga	gaagcggggc	aagtatgcga	aactccaccc	540
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gaagaagaag	atgaaatata	ttcaggactt	ccagagagag	aaacaggagt	tcgagcgaaa	660
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aaattcttcc	aagaagatga	aattccagg	agaacccaag	aagcctccca	tgaacggtta	1860
ccagaagttc	tcccaggagc	tgctgtccaa	tggggagctg	aaccacctgc	cgctgaagga	1920
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caaaaagctg	gccgaggagc	agcaaaaagc	gtacaagggt	cacctggacc	tctgggttaa	2040
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g 2581

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<210> 67
 <211> 764
 <212> PRT
 <213> Homo sapien

<400> 67

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Lys	Gly	Gln	Asp	Arg	Trp	Ser	Gln	Glu	Asp	Met	Leu	Thr	Leu	Leu	Glu	20	25	30	
Cys	Met	Lys	Asn	Asn	Leu	Pro	Ser	Asn	Asp	Ser	Ser	Lys	Phe	Lys	Thr	35	40	45	
Thr	Glu	Ser	His	Met	Asp	Trp	Glu	Lys	Val	Ala	Phe	Lys	Asp	Phe	Ser	50	55	60	
Gly	Asp	Met	Cys	Lys	Leu	Lys	Trp	Val	Glu	Ile	Ser	Asn	Glu	Val	Arg	65	70	75	80
Lys	Phe	Arg	Thr	Leu	Thr	Glu	Leu	Ile	Leu	Asp	Ala	Gln	Glu	His	Val	85	90	95	
Lys	Asn	Pro	Tyr	Lys	Gly	Lys	Lys	Leu	Lys	Lys	His	Pro	Asp	Phe	Pro	100	105	110	
Lys	Lys	Pro	Leu	Thr	Pro	Tyr	Phe	Arg	Phe	Phe	Met	Glu	Lys	Arg	Ala	115	120	125	
Lys	Tyr	Ala	Lys	Leu	His	Pro	Glu	Met	Ser	Asn	Leu	Asp	Leu	Thr	Lys	130	135	140	
Ile	Leu	Ser	Lys	Lys	Tyr	Lys	Glu	Leu	Pro	Glu	Lys	Lys	Lys	Met	Lys	145	150	155	160
Tyr	Ile	Gln	Asp	Phe	Gln	Arg	Glu	Lys	Gln	Glu	Phe	Glu	Arg	Asn	Leu	165	170	175	
Ala	Arg	Phe	Arg	Glu	Asp	His	Pro	Asp	Leu	Ile	Gln	Asn	Ala	Lys	Lys	180	185	190	
Ser	Asp	Ile	Pro	Glu	Lys	Pro	Lys	Thr	Pro	Gln	Gln	Leu	Trp	Tyr	Thr	195	200	205	
His	Glu	Lys	Lys	Val	Tyr	Leu	Lys	Val	Arg	Pro	Asp	Ala	Thr	Thr	Lys	210	215	220	
Glu	Val	Lys	Asp	Ser	Leu	Gly	Lys	Gln	Trp	Ser	Gln	Leu	Ser	Asp	Lys	225	230	235	240
Lys	Arg	Leu	Lys	Trp	Ile	His	Lys	Ala	Leu	Glu	Gln	Arg	Lys	Glu	Tyr	245	250	255	
Glu	Glu	Ile	Met	Arg	Asp	Tyr	Ile	Gln	Lys	His	Pro	Glu	Leu	Asn	Ile	260	265	270	
Ser	Glu	Glu	Gly	Ile	Thr	Lys	Ser	Thr	Leu	Thr	Lys	Ala	Glu	Arg	Gln	275	280	285	
Leu	Lys	Asp	Lys	Phe	Asp	Gly	Arg	Pro	Thr	Lys	Pro	Pro	Pro	Asn	Ser	290	295	300	
Tyr	Ser	Leu	Tyr	Cys	Ala	Glu	Leu	Met	Ala	Asn	Met	Lys	Asp	Val	Pro	305	310	315	320
Ser	Thr	Glu	Arg	Met	Val	Leu	Cys	Ser	Gln	Gln	Trp	Lys	Leu	Leu	Ser	325	330	335	

Gln	Lys	Glu	Lys	Asp	Ala	Tyr	His	Lys	Lys	Cys	Asp	Gln	Lys	Lys	Lys	
			340					345					350			
Asp	Tyr	Glu	Val	Glu	Leu	Leu	Arg	Phe	Leu	Glu	Ser	Leu	Pro	Glu	Glu	
		355					360					365				
Glu	Gln	Gln	Arg	Val	Leu	Gly	Glu	Glu	Lys	Met	Leu	Asn	Ile	Asn	Lys	
	370					375				380						
Lys	Gln	Ala	Thr	Ser	Pro	Ala	Ser	Lys	Lys	Pro	Ala	Gln	Glu	Gly	Gly	
385					390					395					400	
Lys	Gly	Gly	Ser	Glu	Lys	Pro	Lys	Arg	Pro	Val	Ser	Ala	Met	Phe	Ile	
			405					410						415		
Phe	Ser	Glu	Glu	Lys	Arg	Arg	Gln	Leu	Gln	Glu	Glu	Arg	Pro	Glu	Leu	
			420					425					430			
Ser	Glu	Ser	Glu	Leu	Thr	Arg	Leu	Leu	Ala	Arg	Met	Trp	Asn	Asp	Leu	
		435					440					445				
Ser	Glu	Lys	Lys	Lys	Ala	Lys	Tyr	Lys	Ala	Arg	Glu	Ala	Ala	Leu	Lys	
	450					455					460					
Ala	Gln	Ser	Glu	Arg	Lys	Pro	Gly	Gly	Glu	Arg	Glu	Glu	Arg	Gly	Lys	
465					470					475					480	
Leu	Pro	Glu	Ser	Pro	Lys	Arg	Ala	Glu	Glu	Ile	Trp	Gln	Gln	Ser	Val	
				485					490					495		
Ile	Gly	Asp	Tyr	Leu	Ala	Arg	Phe	Lys	Asn	Asp	Arg	Val	Lys	Ala	Leu	
			500					505					510			
Lys	Ala	Met	Glu	Met	Thr	Trp	Asn	Asn	Met	Glu	Lys	Lys	Glu	Lys	Leu	
		515					520					525				
Met	Trp	Ile	Lys	Lys	Ala	Ala	Glu	Asp	Gln	Lys	Arg	Tyr	Glu	Arg	Glu	
	530					535					540					
Leu	Ser	Glu	Met	Arg	Ala	Pro	Pro	Ala	Ala	Thr	Asn	Ser	Ser	Lys	Lys	
545					550					555					560	
Met	Lys	Phe	Gln	Gly	Glu	Pro	Lys	Lys	Pro	Pro	Met	Asn	Gly	Tyr	Gln	
				565					570					575		
Lys	Phe	Ser	Gln	Glu	Leu	Leu	Ser	Asn	Gly	Glu	Leu	Asn	His	Leu	Pro	
			580					585					590			
Leu	Lys	Glu	Arg	Met	Val	Glu	Ile	Gly	Ser	Arg	Trp	Gln	Arg	Ile	Ser	
		595					600					605				
Gln	Ser	Gln	Lys	Glu	His	Tyr	Lys	Lys	Leu	Ala	Glu	Glu	Gln	Gln	Lys	
						615					620					
Gln	Tyr	Lys	Val	His	Leu	Asp	Leu	Trp	Val	Lys	Ser	Leu	Ser	Pro	Gln	
625					630					635					640	
Asp	Arg	Ala	Ala	Tyr	Lys	Glu	Tyr	Ile	Ser	Asn	Lys	Arg	Lys	Ser	Met	
				645					650					655		
Thr	Lys	Leu	Arg	Gly	Pro	Asn	Pro	Lys	Ser	Ser	Arg	Thr	Thr	Leu	Gln	
			660					665					670			
Ser	Lys	Ser	Glu	Ser	Glu	Glu	Asp	Asp								

<210> 68
 <211> 434
 <212> DNA
 <213> Homo sapien

<400> 68
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 ccaatcgcat ctgcaaagtg ttggcgggtca atcaagagaa cgagcagctt atggaagact 180
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 ggatgggtctc ggat 434

<210> 69
 <211> 244
 <212> DNA
 <213> Homo sapien

<400> 69
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 ttatgtgctg accttcctc cactattgtc ctgtgaccct gccaaatccc cttttgtgag 180
 aaacacccaa gaatgatcaa taaaaataa attaatttag gaaaaaaaaa aaaaaaaact 240
 cgag 244

<210> 70
 <211> 437
 <212> DNA
 <213> Homo sapien

<400> 70
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 tctcgcagca gcagaccttg cccgtgatga gcggggaggc ccttggtggt ctgggcccagg 360
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 tggcgcagga agccggg 437

<210> 71
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 71
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 gaccaatcca aggagggctg caggaggagc ttcagggtgac cctccagggg actaccgaga 180
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 ttccacttca accccggtta tgaggaagga g 271

<210> 72
 <211> 290
 <212> DNA
 <213> Homo sapien

<400> 72
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 cgggtggccga ggggtcccagc tctgtccttc ggcggaacgt gatcagcgag agggagcgca 180
 ggaagcggat gtcgttgagc tgtgagcgtc tgcggggccct gctgccccag ttcgatggcc 240
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<210> 73
 <211> 144
 <212> PRT
 <213> Homo sapien

<400> 73
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 Lys Ala Ile Met Thr Tyr Val Ser Ser Phe Tyr His Ala Phe Ser Gly
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 Ala Gln Lys Ala Glu Thr Ala Ala Asn Arg Ile Cys Lys Val Leu Ala
 35 40 45
 Val Asn Gln Glu Asn Glu Gln Leu Met Glu Asp Tyr Glu Lys Leu Ala
 50 55 60
 Ser Asp Leu Leu Glu Trp Ile Arg Arg Thr Ile Pro Trp Leu Glu Asn
 65 70 75 80
 Arg Val Pro Glu Asn Thr Met His Ala Met Gln Gln Lys Leu Glu Asp
 85 90 95
 Phe Arg Asp Tyr Arg Arg Leu His Lys Pro Pro Lys Val Gln Glu Lys
 100 105 110
 Cys Gln Leu Glu Ile Asn Phe Asn Thr Leu Gln Thr Lys Leu Arg Leu
 115 120 125
 Ser Asn Arg Pro Ala Phe Met Pro Ser Glu Gly Arg Met Val Ser Asp
 130 135 140

<210> 74
 <211> 64
 <212> PRT
 <213> Homo sapien

<400> 74
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 Gln Gly His Lys His Cys Gly Arg Pro Gln Gly Pro Leu Pro Arg Lys
 20 25 30
 Thr Arg Asp Leu Cys Ser Leu Val Tyr Val Leu Thr Phe Pro Pro Leu
 35 40 45
 Leu Ser Cys Asp Pro Ala Lys Ser Pro Phe Val Arg Asn Thr Gln Glu
 50 55 60

<210> 75

<211> 145
 <212> PRT
 <213> Homo sapien

<400> 75
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 35 40 45
 Thr Ser Leu Gly Thr Asp Lys Cys Glu Ala Leu Leu Gly Leu Cys Gln
 50 55 60
 Val Arg Gly Gly Leu Pro Pro Phe Ser Glu Pro Ser Ser Leu Val Pro
 65 70 75 80
 Trp Pro Pro Gly Arg Ser Leu Pro Lys Ala Val Arg Pro Pro Leu Ser
 85 90 95
 Trp Pro Pro Phe Ser Gln Gln Gln Thr Leu Pro Val Met Ser Gly Glu
 100 105 110
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 115 120 125
 Pro Leu Gly Glu Pro Ala Lys Glu Asp Pro Met Leu Ala Gln Glu Ala
 130 135 140
 Gly
 145

<210> 76
 <211> 69
 <212> PRT
 <213> Homo sapien

<400> 76
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 Asn Pro Ile Ile Pro Phe Thr Gly Pro Ile Gln Gly Gly Leu Gln Glu
 35 40 45
 Gly Leu Gln Val Thr Leu Gln Gly Thr Thr Glu Ser Phe Ala Gln Lys
 50 55 60
 Phe Val Val Asn Phe
 65

<210> 77
 <211> 96
 <212> PRT
 <213> Homo sapien

<400> 77
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 20 25 30
 Ser Gly Pro Pro Lys Ala Pro Thr Val Ala Glu Gly Pro Ser Ser Cys

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<210> 78
<211> 2076
<212> DNA
<213> Homo sapien
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<210> 79
<211> 2790
<212> DNA
<213> Homo sapien
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<400> 79

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tgaggcaaga	tggtagtggt	gtgagagcgg	atgttgatcat	gaaatttcaa	ttcactagaa	420
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actctggaaa	cctggaaata	aacccttcaa	ctgagataac	atcacttact	gaccaggctg	540
cagcaaattg	gcttattaat	gaatgtgggg	ccggtccaga	cctaataaca	ttgtctgagc	600
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gcaaacacct	acaataaagc	catctacttt	tagggaaagg	gagttgaaaa	tgcaaccaac	2700
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<210> 80

<211> 1460

<212> DNA

<213> Homo sapien

<400> 80

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gtcgcagggg	tagtgatcct	ggcagtcacc	atagctctac	ttgtttactt	tttagctttt	180
gatcaaaaat	cttactttta	taggagcagt	tttcaactcc	taaatgttga	atataatagt	240
cagttaaatt	caccagctac	acaggaatac	aggactttga	gtggaagaat	tgaatctctg	300
attactaaaa	cattcaaaga	atcaaattta	agaaatcagt	tcatcagagc	tcatgttgcc	360
aaactgaggg	aagatggtag	tgggtgtgaga	gcggatgttg	tcatgaaatt	tcaattcact	420
agaaataaca	atggagcatc	aatgaaaagc	agaattgagt	ctgtttttacg	acaaatgctg	480
aataactctg	gaaacctgga	aataaacctt	tcaactgaga	taacatcact	tactgaccag	540
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gagcagagaa	tccttggagg	cactgaggct	gaggagggaa	gctggccgtg	gcaagtcagt	660
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gtgggggatag	taagctgggg	agatcagtgt	ggcctgccgg	ataagccagg	agtgtatact	1260
cgagtgcag	cctaccttga	ctggattagg	caacaaactg	ggatctagt	caacaagtgc	1320
atccctgttg	caaagtctgt	atgcaggtgt	gcctgtctta	aattccaaag	ctttacattt	1380
caactgaaaa	agaaactaga	aatgtcctaa	tttaacatct	tgttacataa	atatggttta	1440
acaaaaaaaa	aaaaaaaaaa					1460

<210> 81

<211> 386

<212> PRT

<213> Homo sapien

<400> 81

Met	Phe	Ala	Glu	Ile	Gln	Ile	Gln	Asp	Lys	Asp	Arg	Met	Gly	Thr	Ala	
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Gly	Lys	Val	Ile	Lys	Cys	Lys	Ala	Ala	Val	Leu	Trp	Glu	Gln	Lys	Gln	
			20					25					30			
Pro	Phe	Ser	Ile	Glu	Glu	Ile	Glu	Val	Ala	Pro	Pro	Lys	Thr	Lys	Glu	
		35					40					45				
Val	Arg	Ile	Lys	Ile	Leu	Ala	Thr	Gly	Ile	Cys	Arg	Thr	Asp	Asp	His	
	50					55					60					
Val	Ile	Lys	Gly	Thr	Met	Val	Ser	Lys	Phe	Pro	Val	Ile	Val	Gly	His	
65					70				75						80	
Glu	Ala	Thr	Gly	Ile	Val	Glu	Ser	Ile	Gly	Glu	Gly	Val	Thr	Thr	Val	
			85						90					95		
Lys	Pro	Gly	Asp	Lys	Val	Ile	Pro	Leu	Phe	Leu	Pro	Gln	Cys	Arg	Glu	
			100					105					110			
Cys	Asn	Ala	Cys	Arg	Asn	Pro	Asp	Gly	Asn	Leu	Cys	Ile	Arg	Ser	Asp	
	115					120						125				
Ile	Thr	Gly	Arg	Gly	Val	Leu	Ala	Asp	Gly	Thr	Thr	Arg	Phe	Thr	Cys	
	130					135					140					
Lys	Gly	Lys	Pro	Val	His	His	Phe	Met	Asn	Thr	Ser	Thr	Phe	Thr	Glu	
145					150					155					160	

Tyr Thr Val Val Asp Glu Ser Ser Val Ala Lys Ile Asp Asp Ala Ala
 165 170 175
 Pro Pro Glu Lys Val Cys Leu Ile Gly Cys Gly Phe Ser Thr Gly Tyr
 180 185 190
 Gly Ala Ala Val Lys Thr Gly Lys Val Lys Pro Gly Ser Thr Cys Val
 195 200 205
 Val Phe Gly Leu Arg Gly Val Gly Leu Ser Val Ile Met Gly Cys Lys
 210 215 220
 Ser Ala Gly Ala Ser Arg Ile Ile Gly Ile Asp Leu Asn Lys Asp Lys
 225 230 235 240
 Phe Glu Lys Ala Met Ala Val Gly Ala Thr Glu Cys Ile Ser Pro Lys
 245 250 255
 Asp Ser Thr Lys Pro Ile Ser Glu Val Leu Ser Glu Met Thr Gly Asn
 260 265 270
 Asn Val Gly Tyr Thr Phe Glu Val Ile Gly His Leu Glu Thr Met Ile
 275 280 285
 Asp Ala Leu Ala Ser Cys His Met Asn Tyr Gly Thr Ser Val Val Val
 290 295 300
 Gly Val Pro Pro Ser Ala Lys Met Leu Thr Tyr Asp Pro Met Leu Leu
 305 310 315 320
 Phe Thr Gly Arg Thr Trp Lys Gly Cys Val Phe Gly Gly Leu Lys Ser
 325 330 335
 Arg Asp Asp Val Pro Lys Leu Val Thr Glu Phe Leu Ala Lys Lys Phe
 340 345 350
 Asp Leu Asp Gln Leu Ile Thr His Val Leu Pro Phe Lys Lys Ile Ser
 355 360 365
 Glu Gly Phe Glu Leu Leu Asn Ser Gly Gln Ser Ile Arg Thr Val Leu
 370 375 380
 Thr Phe
 385

<210> 82

<211> 418

<212> PRT

<213> Homo sapien

<400> 82

Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro
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 Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val
 20 25 30
 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr
 35 40 45
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln
 50 55 60
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile
 65 70 75 80
 Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln
 85 90 95
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val
 100 105 110
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly
 115 120 125
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn

130	135	140
Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu		
145	150	155
Thr Asp Gln Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly		160
	165	170
Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu		175
	180	185
Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn		190
	195	200
Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr		205
	210	215
Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala		220
225	230	235
Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg		240
	245	250
Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp		255
	260	265
Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile		270
	275	280
His Ser Val Cys Leu Pro Ala Ala Thr Gln Asn Ile Pro Pro Gly Ser		285
	290	295
Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr		300
305	310	315
Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val		320
	325	330
Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu		335
	340	345
Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser		350
	355	360
Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val		365
	370	375
Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly		380
385	390	395
Val Tyr Thr Arg Val Thr Ala Tyr Leu Asp Trp Ile Arg Gln Gln Thr		400
	405	410
		415
Gly Ile		

<210> 83

<211> 418

<212> PRT

<213> Homo sapien

<400> 83

Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro	
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Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val	10
	20
Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr	25
	30
	35
Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln	40
	45
	50
Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile	55
	60
65	70
	75
	80

Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln
 85 90 95
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val
 100 105 110
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly
 115 120 125
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn
 130 135 140
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu
 145 150 155 160
 Thr Asp Gln Ala Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly
 165 170 175
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu
 180 185 190
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn
 195 200 205
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr
 210 215 220
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala
 225 230 235 240
 Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg
 245 250 255
 Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp
 260 265 270
 Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile
 275 280 285
 His Ser Val Cys Leu Pro Ala Ala Thr Gln Asn Ile Pro Pro Gly Ser
 290 295 300
 Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr
 305 310 315 320
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val
 325 330 335
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu
 340 345 350
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser
 355 360 365
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val
 370 375 380
 Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly
 385 390 395 400
 Val Tyr Thr Arg Val Thr Ala Tyr Leu Asp Trp Ile Arg Gln Gln Thr
 405 410 415
 Gly Ile

<210> 84
 <211> 489
 <212> DNA
 <213> Homo sapien

<400> 84
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 atcagctgga tgccgtttct aagtaccagg aagtcacaaa taatttgag tttgcaaaag 120
 aattacagag gagtttcatg gcactaagtc aagatattca gaaaacaata aagaagacag 180

cacgtcggga	gcagcttatg	agagaagaag	ctgaacagaa	acgtttaaaa	actgtacttg	240
agctacagta	tgTTTTggac	aaattgggag	atgatgaagt	gCGGactgac	ctgaaacaag	300
gtttgaatgg	agtGCCaata	ttgtccgaag	aggagtgtgc	attgttggat	gaattctata	360
agctagtaga	ccctgaacgg	gacatgagct	tgaggttgaa	tgaacagtat	gaacatgcct	420
ccattcacct	gtgggacctg	ctggaaggga	aggaaaaacc	tgtatgtgga	accacctata	480
aagttctaa						489

<210> 85

<211> 304

<212> DNA

<213> Homo sapien

<400> 85

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acgcggacag	cgtggccgag	ctcggggagc	agatcgacaa	cctgcagcgg	gtgaagcaga	120
agctggagaa	ggagaagagc	gagatgaaga	tggagatcga	tgacctcgct	tgtaacatgg	180
aggTcatctc	caaTctaaG	ggaaaccttg	agaagatgtg	ccgcacactg	gaggaccaag	240
tgagtgaGct	gaagaccCag	gaggaggaac	agcagcggct	gatcaatgaa	ctgactgcgc	300
agag						304

<210> 86

<211> 296

<212> DNA

<213> Homo sapien

<400> 86

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ttccttaagg	attaaaatgt	ttagggcaac	acgtgttact	tccacttcca	gatttctgaa	120
tccatagtgt	gtatgtttcc	ttgtcctccc	aggggttgtg	atcctggcag	tccccatagc	180
tctacttggt	tactttttag	cttttgatca	aaaatcttac	ttttattgga	gcaattttcc	240
actcccaaAt	gttgaatata	atagtccgtt	taattcccc	gcttcaccgg	gaattc	296

<210> 87

<211> 904

<212> DNA

<213> Homo sapien

<400> 87

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agattcaaaa	atgtgagttg	gtcttgatcc	acacctaccc	agttggtgaa	gacagccttg	120
tatctgatcg	ttctaaaaaa	gagttgtccc	cggttttaac	cagtgaagtt	catagtgttc	180
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ttggtgaatt	tatgagggga	aaacagatta	actccttttc	tacaccccag	atataaaatc	780
gatggaagtc	ttgaggtccc	tttggaaaccg	agccaaaaga	tcagttaaaa	aaacataccc	840
gttactggcc	tatgatttca	aaaaccacc	atttttaaca	tgcaagcggg	agttccgtta	900
acca						904

<210> 88
 <211> 387
 <212> DNA
 <213> Homo sapien

<400> 88
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 gcggcaacat gtctgtggct ttcgcggccc cgaggcagcg aggcaagggg gagatcactc 120
 ccgctgcgat tcagaagatg ttggatgaca ataaccatct tattcagtgt ataatggact 180
 ctcagaataa aggaaagacc tcagagtgtt ctcagtatca gcagatgttg cacacaaact 240
 tgggtatacct tgctacaata gcagattcta atcaaaatat gcagtctctt ttaccagcac 300
 caccacacaca gaatatgcct atgggtcctg gagggatgaa tcagagcggg cctcccccac 360
 ctccacgctc tcacaacatg ctttcaa 387

<210> 89
 <211> 481
 <212> DNA
 <213> Homo sapien

<400> 89
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 ctggacccaa aatgttggcc cccgtttggc tgggtggaaaa taacaatgag cagctattgg 120
 tgaaccagca agctatacag attcttgaaa agatttctca gccagtgggtg gtgggtggcca 180
 ttgtaggact gtaccgtaca gggaaatcct acttgatgaa ccatctggca ggacagaatc 240
 atggcttccc tctgggctcc acggtgcagt ctgaaaccaa gggcatctgg atgtgggtgcg 300
 tgccccaccc atccaagcca aaccacaccc tggtccttct ggacaccgaa ggtctgggcg 360
 atgtggaaaa gggtgaccct aagaatgact cctggatctt tgccctggct gtgctcctgt 420
 gcagcacctt tgtctacaac agcatgagca ccatcaacca ccaggccctg gagcagctgc 480
 a 481

<210> 90
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 90
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 gacccaaaat gttggccccc gtttgcctgg tggaaaataa caatgagcag ctattgggtga 120
 accagcaagc tatacagatt cttgaaaaga tttctcagcc agtgggtgggtg gtggccattg 180
 taggactgta ccgtacaggg aaatcctact tgatgaacca tctggcagga cagaatcatg 240
 gcttccctct gggctccacg gtgcagtctg aaaccaaggg catctggatg tgggtgcgtgc 300
 cccacccatc caagccaaac cacaccctgg tccttctgga caccgaaggc ctgggagatg 360
 tggaaaaggg tgaccctaag aatgactcct ggatctttgc cctggctgtg ctctgtgca 420
 gcacctttgt ctacaacagc atgagcacca tcaaccacca agccctggag cagctgcatt 480
 atgtgacgga c 491

<210> 91
 <211> 488
 <212> DNA
 <213> Homo sapien

<400> 91
 ttcgacagtc agccgcatct tcttttgcgt cgccagccga gccacatcgc tcagacacca 60

tggggaaggt gaaggtcgga gtcaacggat ttggtcgtat tgggcgcctg gtcaccagg 120
 ctgcttttaa ctctggtaaa gtggatattg ttgccatcaa tgaccccttc attgacctca 180
 actacatggt ttacatgttc caatatgatt ccacccatgg caaattccat ggcaccgtcg 240
 aggctgagaa cgggaagctt gtcacatgat gaaatcccat caccatcttc caggagcgag 300
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 tcttcaccac catggagaag gctggggctc atttgaggag gggagccaaa agggatcatca 420
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 acagcctc 488

<210> 92
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 92
 gacagtcagc cgcattcttct tttgcgtcgc cagccgagcc acatcgctca gacaccatgg 60
 ggaaggtgaa ggtcggagtc aacggatttg gtcgtattgg gcgcctggtc accagggctg 120
 cttttaactc tggtaaagtg gatattgttg ccatcaatga ccccttcatt gacctcaact 180
 acatgggttta catgttccaa tatgattcca cccatggcaa attccatggc accgtcgagg 240
 ctgagaacgg gaagcttgct atcaatggaa atcccatcac catcttccag gagcgagatc 300
 cctccaaaat caagtggggc gatactggcg ctgagtacgt cgtggagtcc actggcgtct 360
 tcaccacat ggagaaggct gggg 384

<210> 93
 <211> 162
 <212> PRT
 <213> Homo sapien

<400> 93
 Lys Gly Lys Leu Asp Asp Tyr Gln Glu Arg Met Asn Lys Gly Glu Arg
 1 5 10 15
 Leu Asn Gln Asp Gln Leu Asp Ala Val Ser Lys Tyr Gln Glu Val Thr
 20 25 30
 Asn Asn Leu Glu Phe Ala Lys Glu Leu Gln Arg Ser Phe Met Ala Leu
 35 40 45
 Ser Gln Asp Ile Gln Lys Thr Ile Lys Lys Thr Ala Arg Arg Glu Gln
 50 55 60
 Leu Met Arg Glu Glu Ala Glu Gln Lys Arg Leu Lys Thr Val Leu Glu
 65 70 75 80
 Leu Gln Tyr Val Leu Asp Lys Leu Gly Asp Asp Glu Val Arg Thr Asp
 85 90 95
 Leu Lys Gln Gly Leu Asn Gly Val Pro Ile Leu Ser Glu Glu Glu Leu
 100 105 110
 Ser Leu Leu Asp Glu Phe Tyr Lys Leu Val Asp Pro Glu Arg Asp Met
 115 120 125
 Ser Leu Arg Leu Asn Glu Gln Tyr Glu His Ala Ser Ile His Leu Trp
 130 135 140
 Asp Leu Leu Glu Gly Lys Glu Lys Pro Val Cys Gly Thr Thr Tyr Lys
 145 150 155 160
 Val Leu

<210> 94
 <211> 100

<212> PRT

<213> Homo sapien

<400> 94

Asp	Leu	Glu	Glu	Ala	Thr	Leu	Gln	His	Glu	Ala	Thr	Ala	Ala	Thr	Leu
1				5					10					15	
Arg	Lys	Lys	His	Ala	Asp	Ser	Val	Ala	Glu	Leu	Gly	Glu	Gln	Ile	Asp
			20					25					30		
Asn	Leu	Gln	Arg	Val	Lys	Gln	Lys	Leu	Glu	Lys	Glu	Lys	Ser	Glu	Met
		35				40						45			
Lys	Met	Glu	Ile	Asp	Asp	Leu	Ala	Cys	Asn	Met	Glu	Val	Ile	Ser	Lys
	50					55					60				
Ser	Lys	Gly	Asn	Leu	Glu	Lys	Met	Cys	Arg	Thr	Leu	Glu	Asp	Gln	Val
65					70					75				80	
Ser	Glu	Leu	Lys	Thr	Gln	Glu	Glu	Glu	Gln	Gln	Arg	Leu	Ile	Asn	Glu
				85					90					95	
Leu	Thr	Ala	Gln												
			100												

<210> 95

<211> 99

<212> PRT

<213> Homo sapien

<400> 95

Lys	Ile	Leu	Pro	Leu	Asn	Gly	Asn	Leu	Gln	Ala	Val	Glu	Leu	Gly	Glu
1				5					10					15	
Lys	Arg	Thr	Ser	Ser	Leu	Arg	Ile	Lys	Met	Phe	Arg	Ala	Thr	Arg	Val
			20					25					30		
Thr	Ser	Thr	Ser	Arg	Phe	Leu	Asn	Pro	Tyr	Val	Val	Cys	Phe	Leu	Val
		35				40						45			
Leu	Pro	Gly	Val	Val	Ile	Leu	Ala	Val	Pro	Ile	Ala	Leu	Leu	Val	Tyr
	50					55					60				
Phe	Leu	Ala	Phe	Asp	Gln	Lys	Ser	Tyr	Phe	Tyr	Trp	Ser	Asn	Phe	Pro
65					70					75				80	
Leu	Pro	Asn	Val	Glu	Tyr	Asn	Ser	Pro	Phe	Asn	Ser	Pro	Ala	Ser	Pro
			85						90					95	
Gly	Ile	Pro													

<210> 96

<211> 257

<212> PRT

<213> Homo sapien

<400> 96

Val	Gln	Glu	Thr	Ile	His	Glu	His	Asn	Lys	Leu	Ala	Ala	Asn	Ser	Asp
1				5					10					15	
His	Leu	Met	Gln	Ile	Gln	Lys	Cys	Glu	Leu	Val	Leu	Ile	His	Thr	Tyr
			20					25					30		
Pro	Val	Gly	Glu	Asp	Ser	Leu	Val	Ser	Asp	Arg	Ser	Lys	Lys	Glu	Leu
		35				40						45			
Ser	Pro	Val	Leu	Thr	Ser	Glu	Val	His	Ser	Val	Arg	Ala	Gly	Arg	His
	50					55					60				

Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His Phe Asp Leu Ala
 65 70 75 80
 Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu Gln His Ala Asn
 85 90 95
 Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His Lys Asp Ala His
 100 105 110
 Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly Gly Gly Ser Arg
 115 120 125
 Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp Cys Thr Pro Arg
 130 135 140
 Thr Asn Asn Ile Glu Leu His Tyr Cys Thr Gly Ala Tyr Arg Ile Ser
 145 150 155 160
 Pro Val Asp Val Asn Ser Arg Pro Ser Ser Cys Leu Thr Asn Phe Leu
 165 170 175
 Leu Asn Gly Arg Ser Val Leu Leu Glu Gln Pro Arg Lys Ser Gly Ser
 180 185 190
 Lys Val Ile Ser His Met Leu Ser Ser His Gly Gly Glu Ile Phe Leu
 195 200 205
 His Val Leu Ser Ser Ser Arg Ser Ile Leu Glu Asp Pro Pro Ser Ile
 210 215 220
 Ser Glu Gly Cys Gly Gly Arg Val Thr Asp Tyr Arg Ile Thr Asp Phe
 225 230 235 240
 Gly Glu Phe Met Arg Gly Lys Gln Ile Asn Ser Phe Ser Thr Pro Gln
 245 250 255
 Ile

<210> 97
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 97
 Ser Leu Pro Gln Phe Ala Val His Pro Glu Arg Ser Gly Leu Ala Asp
 1 5 10 15
 Ser Gly Asp Gly Gly Asn Met Ser Val Ala Phe Ala Ala Pro Arg Gln
 20 25 30
 Arg Gly Lys Gly Glu Ile Thr Pro Ala Ala Ile Gln Lys Met Leu Asp
 35 40 45
 Asp Asn Asn His Leu Ile Gln Cys Ile Met Asp Ser Gln Asn Lys Gly
 50 55 60
 Lys Thr Ser Glu Cys Ser Gln Tyr Gln Gln Met Leu His Thr Asn Leu
 65 70 75 80
 Val Tyr Leu Ala Thr Ile Ala Asp Ser Asn Gln Asn Met Gln Ser Leu
 85 90 95
 Leu Pro Ala Pro Pro Thr Gln Asn Met Pro Met Gly Pro Gly Gly Met
 100 105 110
 Asn Gln Ser Gly Pro Pro Pro Pro Pro Arg Ser His Asn Met Pro Ser
 115 120 125

<210> 98
 <211> 159
 <212> PRT
 <213> Homo sapien

<400> 98

Phe	Leu	Asp	Leu	Arg	Cys	Tyr	Arg	Ala	Gly	Ser	Ser	Arg	Leu	Ala	Val
1				5					10					15	
Ala	Met	Glu	Ser	Gly	Pro	Lys	Met	Leu	Ala	Pro	Val	Cys	Leu	Val	Glu
		20						25					30		
Asn	Asn	Asn	Glu	Gln	Leu	Leu	Val	Asn	Gln	Gln	Ala	Ile	Gln	Ile	Leu
		35					40					45			
Glu	Lys	Ile	Ser	Gln	Pro	Val	Val	Val	Val	Ala	Ile	Val	Gly	Leu	Tyr
	50					55					60				
Arg	Thr	Gly	Lys	Ser	Tyr	Leu	Met	Asn	His	Leu	Ala	Gly	Gln	Asn	His
65					70					75				80	
Gly	Phe	Pro	Leu	Gly	Ser	Thr	Val	Gln	Ser	Glu	Thr	Lys	Gly	Ile	Trp
				85					90					95	
Met	Trp	Cys	Val	Pro	His	Pro	Ser	Lys	Pro	Asn	His	Thr	Leu	Val	Leu
			100					105					110		
Leu	Asp	Thr	Glu	Gly	Leu	Gly	Asp	Val	Glu	Lys	Gly	Asp	Pro	Lys	Asn
		115					120					125			
Asp	Ser	Trp	Ile	Phe	Ala	Leu	Ala	Val	Leu	Leu	Cys	Ser	Thr	Phe	Val
	130					135					140				
Tyr	Asn	Ser	Met	Ser	Thr	Ile	Asn	His	Gln	Ala	Leu	Glu	Gln	Leu	
145					150					155					

<210> 99

<211> 147

<212> PRT

<213> Homo sapien

<400> 99

Met	Glu	Ser	Gly	Pro	Lys	Met	Leu	Ala	Pro	Val	Cys	Leu	Val	Glu	Asn
1				5					10					15	
Asn	Asn	Glu	Gln	Leu	Leu	Val	Asn	Gln	Gln	Ala	Ile	Gln	Ile	Leu	Glu
		20						25					30		
Lys	Ile	Ser	Gln	Pro	Val	Val	Val	Val	Ala	Ile	Val	Gly	Leu	Tyr	Arg
		35					40					45			
Thr	Gly	Lys	Ser	Tyr	Leu	Met	Asn	His	Leu	Ala	Gly	Gln	Asn	His	Gly
	50					55					60				
Phe	Pro	Leu	Gly	Ser	Thr	Val	Gln	Ser	Glu	Thr	Lys	Gly	Ile	Trp	Met
65					70					75				80	
Trp	Cys	Val	Pro	His	Pro	Ser	Lys	Pro	Asn	His	Thr	Leu	Val	Leu	Leu
				85					90					95	
Asp	Thr	Glu	Gly	Leu	Gly	Asp	Val	Glu	Lys	Gly	Asp	Pro	Lys	Asn	Asp
		100						105					110		
Ser	Trp	Ile	Phe	Ala	Leu	Ala	Val	Leu	Leu	Cys	Ser	Thr	Phe	Val	Tyr
		115					120					125			
Asn	Ser	Met	Ser	Thr	Ile	Asn	His	Gln	Ala	Leu	Glu	Gln	Leu	His	Tyr
	130					135					140				
Val	Thr	Asp													
145															

<210> 100

<211> 124

<212> PRT

<213> Homo sapien

<400> 100
 Met Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg
 1 5 10 15
 Leu Val Thr Arg Ala Ala Phe Asn Ser Gly Lys Val Asp Ile Val Ala
 20 25 30
 Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met Phe Gln
 35 40 45
 Tyr Asp Ser Thr His Gly Lys Phe His Gly Thr Val Glu Ala Glu Asn
 50 55 60
 Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg
 65 70 75 80
 Asp Pro Ser Lys Ile Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val
 85 90 95
 Glu Ser Thr Gly Val Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu
 100 105 110
 Gln Gly Gly Ala Lys Arg Val Ile Ile Ser Ala Pro
 115 120

<210> 101
 <211> 127
 <212> PRT
 <213> Homo sapien

<400> 101
 Gln Ser Ala Ala Ser Ser Phe Ala Ser Pro Ala Glu Pro His Arg Ser
 1 5 10 15
 Asp Thr Met Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile
 20 25 30
 Gly Arg Leu Val Thr Arg Ala Ala Phe Asn Ser Gly Lys Val Asp Ile
 35 40 45
 Val Ala Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met
 50 55 60
 Phe Gln Tyr Asp Ser Thr His Gly Lys Phe His Gly Thr Val Glu Ala
 65 70 75 80
 Glu Asn Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln
 85 90 95
 Glu Arg Asp Pro Ser Lys Ile Lys Trp Gly Asp Thr Gly Ala Glu Tyr
 100 105 110
 Val Val Glu Ser Thr Gly Val Phe Thr Thr Met Glu Lys Ala Gly
 115 120 125

<210> 102
 <211> 1225
 <212> DNA
 <213> Homo sapien

<400> 102
 atggcggcgc ggctcgtcgtc ggggggtggcg gcggcagagg gggcggcggc cctggcggca 60
 gcggagacgg cagcgtgac ggtggcagcg gcggcgcggg acctgggcct gggggaatga 120
 ggcggcccg cgggccagc ggcggagccg tgtagcggag aagctcccc tccctgcttc 180
 ccttgccga gccggggcg cgcgcgacg cggccgtcca gagcgggctc cccaccctc 240
 gactcctgcg acccgacccg cacccccacc cgggcccggg ggatgatgaa gctcaagtcg 300
 aaccagaccc gcacctacga cggcgacggc tacaagaagc gggccgcatg cctgtgtttc 360

cgcagcgaga	gcgaggagga	ggtgctactc	gtgagcagta	gtcgccatcc	agacagatgg	420
attgtccctg	gaggaggcat	ggagcccgag	gaggagccaa	gtgtggcagc	agttcgtgaa	480
gtctgtgagg	aggctggagt	aaaagggaca	ttgggaagat	tagttggaat	ttttgagaac	540
caggagagga	agcacaggac	gtatgtctat	gtgctcattg	tcactgaagt	gctggaagac	600
tgggaagatt	cagttaacat	tggaaaggaag	agggaatgg	ttaaaataga	agacgccata	660
aaagtgtctg	agtatcacaa	acccgtgcag	gcatcatatt	ttgaaacatt	gaggcaaggc	720
tactcagcca	acaatggcac	cccagtcgtg	gccaccacat	actcggtttc	tgctcagagc	780
tcgatgtcag	gcatcagatg	actgaagact	tcctgtaaga	gaaatggaaa	ttggaaacta	840
gactgaagtg	caaatcttcc	ctctcaccct	ggctctttcc	acttctcaca	ggcctcctct	900
ttcaaataag	gcatgggtggg	cagcaaagaa	aggggtgtatt	gataatgttg	ctgtttgggtg	960
ttaagtgatg	gggctttttc	ttctgttttt	attgaggggtg	gggggtgggt	gtgtaatttg	1020
taagtacttt	tgtgcatgat	ctgtccctcc	ctcttcccac	ccctgcagtc	ctctgaagag	1080
aggccaacag	ccttcccctg	ccttggattc	tgaagtgttc	ctgtttgtct	tatcctggcc	1140
ctggccagac	gttttctttg	atttttaatt	tttttttttt	attaaaagat	accagtatga	1200
gaaaaaaaaa	aaaaaaaaaac	tcgag				1225

<210> 103

<211> 741

<212> DNA

<213> Homo sapien

<400> 103

agaaacctca	atcggtattca	gcaaaggaat	ggtgttatta	tcactacata	ccaaatgtta	60
atcaataact	ggcagcaact	ttcaagcttt	agggggccaag	agtttgtgtg	ggactatgtc	120
atcctcgatg	aagcacataa	aataaaaaacc	tcactacta	agtcagcaat	atgtgctcgt	180
gctattcctg	caagtaatcg	cctcctcctc	acaggaaccc	caatccagaa	taatttacia	240
gaactatgg	cctatattga	ttttgcttgt	caaggggtccc	tgctgggaac	attaaaaact	300
tttaagatgg	agtatgaaaa	tcctattact	agagcaagag	agaaggatgc	taccccagga	360
gaaaaagcct	tgggatttaa	aatatctgaa	aacttaatgg	caatcataaa	accctatattt	420
ctcaggagga	ctaaagaaga	cgtacagaag	aaaaagtcaa	gcaaccagga	ggccagactt	480
aatgaaaaga	atccagatgt	tgatgccatt	tgtgaaatgc	cttccctttc	caggagaaat	540
gatttaatta	tttggtatcg	acttgtgcct	ttacaagaag	aaatatacag	gaaatttgtg	600
tcttttagatc	atatcaagga	gttgctaatt	gagacgcgct	cacctttggc	tgagctaggt	660
gtcttaaaga	agctgtgtga	tcactcctagg	ctgctgtctg	cacgggcttg	ttgtttgcta	720
aatcttggga	cattctctgc	t				741

<210> 104

<211> 321

<212> DNA

<213> Homo sapien

<400> 104

ttgctctgcg	tcataaaaga	caccaaactg	ctgtgctata	aaagttccaa	ggaccagcag	60
cctcagatgg	aactgccact	ccaaggctgt	aacattacgt	acatcccga	agacagcaaa	120
aagaagaagc	acgagctgaa	gattactcag	cagggcacgg	acccgcttgt	tctcgccgtc	180
cagagcaagg	aacaggccga	gcagtggctg	aaggatgatca	aagaagccta	cagtggttgt	240
agtggccccg	tggattcaga	gtgtcctcct	ccaccaagct	ccccggtgca	caaggcagaa	300
ctggagaaga	aactgtcttc	a				321

<210> 105

<211> 389

<212> DNA

<213> Homo sapien

<400> 105

cagcactggc	cacactataa	aattcagggt	cagaaaaaca	gggtaagtca	cagacagcaa	60
cgcttccagc	atttattttc	tttgcaccca	tgggcaattt	gagaaaattt	accttttagaa	120
cgaactctgt	taaagggtaca	gacagtacaa	tactttttat	tcagaagggt	tctgcataaa	180
ggatgatagtc	ttttgactta	atatattatt	gtctcctgcc	ttgtgtttct	ggaatgaatg	240
aagggtcatta	tttagaagat	aatctgggtt	gtatttgtgt	cgtcagattg	aattttcatt	300
gcacatgcta	cttaatgtct	ttaccaata	ataacaaagg	gaaagaaaac	caaatataga	360
tgtataataa	ggaaaagctg	gcctataga				389

<210> 106

<211> 446

<212> DNA

<213> Homo sapien

<400> 106

gccacatttg	ccctgggtcat	agtttaaaca	ccaggtcctg	tgtcacatct	ttttggtgcc	60
acaagtatca	ctccattggt	cagagagtaa	tgtattagtt	ctgcccatt	cattcttcac	120
ttttatttct	tccatttcat	tagcatttat	atcagctcaa	gaagttaagg	ttagaaaatt	180
ttccacttca	aattttcagt	acagaaatgt	gctgtgatgt	ttgacaagac	tatttcatag	240
taagtgaagt	aatgtttatt	ggcctctgct	ctcctctgtg	tcagacctag	gaagcctgag	300
gattacttag	ttgttctgtc	tctgggtcca	caggcagaat	ttggcccatc	caaagactgg	360
ccaagtgcc	aaaaaaggcc	tgattaggcc	ctgaaattca	gtgaaattct	gcctgaagaa	420
acctcttatt	gaatttgaaa	accata				446

<210> 107

<211> 467

<212> DNA

<213> Homo sapien

<400> 107

ccgcccgtgc	cgctgccttc	ctgggattgg	agtctcgagc	tttcttcggt	cgttcgccgg	60
cggggttcgc	cccttctcgc	gcctcggggc	tgcgaggctg	gggaaggggt	tggagggggc	120
tgttgatcgc	cgcgtttaag	ttgcgctcgg	ggcgcccatg	tcggccggcg	aggctcgagcg	180
cctagtgtcg	gagctgagcg	gcgggaccgg	aggggatgag	gaggaagagt	ggctctatgg	240
cgatgaagat	gaagttgaaa	ggccagaaga	agaaaatgcc	agtgtctaate	ctccatctgg	300
aattgaagat	gaaactgctg	aaaatgggtg	acccaaaccg	aaagtgactg	agaccgaaga	360
tgatagtgat	agtgcacagc	atgatgatga	agatgatgtg	catgtcacta	taggagacat	420
taaaacggga	gcaccacagt	atgggagtta	tggtacagca	cctgtaa		467

<210> 108

<211> 491

<212> DNA

<213> Homo sapien

<400> 108

gaaagataca	acttcccca	cccaaaccg	tttgtggagg	acgacatgga	taagaatgaa	60
atgcctctctg	ttgcgtaccg	ttaccgcagg	tggagacttg	gagatgatat	tgaccttatt	120
gtccgttggtg	agcacgatgg	cgtcatgact	ggagccaacg	gggaagtgtc	cttcatcaac	180
atcaagacac	tcaatgagtg	ggattccagg	cactgtaatg	gcgttgactg	gcgtcagaag	240
ctggactctc	agcgaggggc	tgtcattgcc	acggagctga	agaacaacag	ctacaagttg	300
gcccggtgga	cctgctgtgc	tttgctggct	ggatctgagt	acctcaagct	tggttatgtg	360
tctcggtacc	acgtgaaaga	ctcctcacgc	cacgtcatcc	taggcacca	gcagttcaag	420
cctaattgagt	ttgccagcca	gatcaacctg	agcgtggaga	atgcctgagg	cattttacgc	480
tgcgtcattg	a					491

<210> 109
 <211> 489
 <212> DNA
 <213> Homo sapien

<400> 109
 ctcagatagt actgaaccct ttatcaacta tgtttttttca gtctgacaac caaggcggct 60
 actaagtgac taaggggagc gtagtatata gtgtggataa gcaggacaaa ggggtgattc 120
 acatcccagg caggacagag caggagatca tgagatttca tcactcagga tggcttgtga 180
 tttattttat tttattcttt tttttttttg agatggagtc tcactcttgc ccaggctgga 240
 gtgcagtggt gcgatcttgg ctactgcaa cctctgcctc ctgggttcaa gcagttctcc 300
 tgcctcagcc tcccaagtag ctgggattac aggcgtccgc caccatgccc agccaatttt 360
 tgtactttta gtagagatgg ggtttcacca tgttggccag gctggtctcg aactcctgac 420
 ctcaggtgat ccactcgcct cggcctccca aagtgctggg attataggca tgcgccacca 480
 tgcccgggc 489

<210> 110
 <211> 391
 <212> DNA
 <213> Homo sapien

<400> 110
 gcggagtcgc ctggctgacc cgagcgtctg tctccgccgg gaaccctggg gcatggagag 60
 gtctgagtac ctgggccgcg gcgcacgctg catcgccggg ccaggctgcc gctgtcccag 120
 tggagttcca ggagcaccac ctgagtgagg tgcagaatat ggcatctgag gagaagctgg 180
 agcaggtgct gagttccatg aaggagaaca aagtggccat cattggaaag attcataccc 240
 cgatggagta taagggggag ctagcctcct atgatatgcg gctgaggcgt aagttggact 300
 tatttgccaa cgtaatccat gtgaagtcac ttcctgggta tatgactcgg cacaacaatc 360
 tagacctggt gatcattcga gagcagacag a 391

<210> 111
 <211> 172
 <212> PRT
 <213> Homo sapien

<400> 111
 Met Met Lys Leu Lys Ser Asn Gln Thr Arg Thr Tyr Asp Gly Asp Gly
 1 5 10 15
 Tyr Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Ser Glu Glu
 20 25 30
 Glu Val Leu Leu Val Ser Ser Ser Arg His Pro Asp Arg Trp Ile Val
 35 40 45
 Pro Gly Gly Gly Met Glu Pro Glu Glu Glu Pro Ser Val Ala Ala Val
 50 55 60
 Arg Glu Val Cys Glu Glu Ala Gly Val Lys Gly Thr Leu Gly Arg Leu
 65 70 75 80
 Val Gly Ile Phe Glu Asn Gln Glu Arg Lys His Arg Thr Tyr Val Tyr
 85 90 95
 Val Leu Ile Val Thr Glu Val Leu Glu Asp Trp Glu Asp Ser Val Asn
 100 105 110
 Ile Gly Arg Lys Arg Glu Trp Phe Lys Ile Glu Asp Ala Ile Lys Val
 115 120 125
 Leu Gln Tyr His Lys Pro Val Gln Ala Ser Tyr Phe Glu Thr Leu Arg

130		135		140
Gln Gly Tyr Ser Ala Asn Asn Gly Thr Pro Val Val Ala Thr Thr Tyr				
145		150		155
Ser Val Ser Ala Gln Ser Ser Met Ser Gly Ile Arg				160
	165		170	

<210> 112
 <211> 247
 <212> PRT
 <213> Homo sapien

<400> 112	
Arg Asn Leu Asn Arg Ile Gln Gln Arg Asn Gly Val Ile Ile Thr Thr	
1	5
Tyr Gln Met Leu Ile Asn Asn Trp Gln Gln Leu Ser Ser Phe Arg Gly	
	20
Gln Glu Phe Val Trp Asp Tyr Val Ile Leu Asp Glu Ala His Lys Ile	
	35
Lys Thr Ser Ser Thr Lys Ser Ala Ile Cys Ala Arg Ala Ile Pro Ala	
	50
Ser Asn Arg Leu Leu Leu Thr Gly Thr Pro Ile Gln Asn Asn Leu Gln	
65	70
Glu Leu Trp Ser Leu Phe Asp Phe Ala Cys Gln Gly Ser Leu Leu Gly	
	85
Thr Leu Lys Thr Phe Lys Met Glu Tyr Glu Asn Pro Ile Thr Arg Ala	
	100
Arg Glu Lys Asp Ala Thr Pro Gly Glu Lys Ala Leu Gly Phe Lys Ile	
	115
Ser Glu Asn Leu Met Ala Ile Ile Lys Pro Tyr Phe Leu Arg Arg Thr	
	130
Lys Glu Asp Val Gln Lys Lys Lys Ser Ser Asn Pro Glu Ala Arg Leu	
145	150
Asn Glu Lys Asn Pro Asp Val Asp Ala Ile Cys Glu Met Pro Ser Leu	
	165
Ser Arg Arg Asn Asp Leu Ile Ile Trp Ile Arg Leu Val Pro Leu Gln	
	180
Glu Glu Ile Tyr Arg Lys Phe Val Ser Leu Asp His Ile Lys Glu Leu	
	195
Leu Met Glu Thr Arg Ser Pro Leu Ala Glu Leu Gly Val Leu Lys Lys	
	210
Leu Cys Asp His Pro Arg Leu Leu Ser Ala Arg Ala Cys Cys Leu Leu	
225	230
Asn Leu Gly Thr Phe Ser Ala	
	245

<210> 113
 <211> 107
 <212> PRT
 <213> Homo sapien

<400> 113	
Leu Leu Cys Val Ile Lys Asp Thr Lys Leu Leu Cys Tyr Lys Ser Ser	
1	5
Lys Asp Gln Gln Pro Gln Met Glu Leu Pro Leu Gln Gly Cys Asn Ile	
	10
	15

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<210> 114
<211> 155
<212> PRT
<213> Homo sapien
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<210> 115
<211> 129
<212> PRT
<213> Homo sapien
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<400> 115															
Gly	Val	Arg	Trp	Leu	Thr	Arg	Ala	Leu	Val	Ser	Ala	Gly	Asn	Pro	Gly
1				5					10					15	
Ala	Trp	Arg	Gly	Leu	Ser	Thr	Ser	Ala	Ala	Ala	His	Ala	Ala	Ser	Arg
			20					25					30		
Ser	Gln	Ala	Ala	Ala	Val	Pro	Val	Glu	Phe	Gln	Glu	His	His	Leu	Ser
		35					40					45			
Glu	Val	Gln	Asn	Met	Ala	Ser	Glu	Glu	Lys	Leu	Glu	Gln	Val	Leu	Ser
	50					55					60				
Ser	Met	Lys	Glu	Asn	Lys	Val	Ala	Ile	Ile	Gly	Lys	Ile	His	Thr	Pro

65					70					75					80
Met	Glu	Tyr	Lys	Gly	Glu	Leu	Ala	Ser	Tyr	Asp	Met	Arg	Leu	Arg	Arg
				85					90					95	
Lys	Leu	Asp	Leu	Phe	Ala	Asn	Val	Ile	His	Val	Lys	Ser	Leu	Pro	Gly
			100					105					110		
Tyr	Met	Thr	Arg	His	Asn	Asn	Leu	Asp	Leu	Val	Ile	Ile	Arg	Glu	Gln
		115					120					125			

Thr

<210> 116
 <211> 550
 <212> DNA
 <213> Homo sapien

<400> 116

gaattcggca	ccagcctcag	agccccccag	cccggctacc	accccctgcg	gaaaggtacc	60
catctgcatt	cctgcccgtc	gggacctggt	ggacagtcca	gcctccttgg	cctctagcct	120
tggctcaccg	ctgcctagag	ccaaggagct	catcctgaat	gaccttcccg	ccagcactcc	180
tgcctccaaa	tcctgtgact	cctccccgcc	ccaggacgct	tccaccccca	ggcccagctc	240
ggccagtcac	ctctgccagc	ttgctgccaa	gccagcacct	tccacggaca	gcgtcgccct	300
gaggagcccc	ctgactctgt	ccagtcctct	caccacgtcc	ttcagcctgg	gctcccacag	360
cactctcaac	ggagacctct	ccgtgccccag	ctcctacgtc	agcctccacc	tgtcccccca	420
ggtcagcagc	tctgtggtgt	acggacgctc	ccccgtgatg	gcatttgagt	ctcatcccca	480
tctccgaggg	tcatccgtct	cttcctccct	accagcatc	cctgggggaa	agccggccta	540
ctccttccac						550

<210> 117
 <211> 154
 <212> DNA
 <213> Homo sapien

<400> 117

ttctgagggg	aagccgagtg	gagtggggcg	cccggcgggc	gtgacaatga	gttttcttgg	60
aggttttttt	ggtcccattt	gtgagattga	tgttgccctt	aatgatgggg	aaaccaggaa	120
aatggcagaa	atgaaaactg	aggatggcaa	agta			154

<210> 118
 <211> 449
 <212> DNA
 <213> Homo sapien

<400> 118

gaattcggca	ccagggcccc	cagcccagag	gtcgccgcca	tggcttcgcc	gcagctctgc	60
cgcgcgctgg	tgtcggcgca	atgggtggcg	gaggcgctgc	gggccccgcg	cgctgggcag	120
cctctgcagc	tgctggagcg	ctcctggtac	ctgccgaagc	tggggcgcg	cgcgcgacgc	180
gagttcgagg	agcgccacat	cccgggcgcc	gctttcttcg	acatcgacca	gtgcagcgac	240
cgcacctcgc	cctacgacca	catgetgccc	ggggccgagc	atttcgcgga	gtacgcaggc	300
cgcctggggc	tggggcgcg	cacccacgtc	gtgatctacg	acgccagcga	ccagggcctc	360
tactccgccc	cgcgcgtctg	gtggatgttc	cgcgccttcg	gccaccacgc	cgtgtcactg	420
cttgatggcg	gcctccgcca	ctggctgcg				449

<210> 119
 <211> 642

<212> DNA

<213> Homo sapien

<400> 119

gaattcggca	cgagcagtaa	cccgaccgcc	gctggtcttc	gctggacacc	atgaatcaca	60
ctgtccaaac	cttcttctct	cctgtcaaca	gtggccagcc	ccccaactat	gagatgctca	120
aggaggagca	cgaggtggct	gtgctggggg	cgccccacaa	ccctgctccc	ccgacgtcca	180
ccgtgatcca	catccgcagc	gagacctccg	tgcccgacca	tgtcgtctgg	tccctgttca	240
acacctcttt	catgaacccc	tgctgcctgg	gcttcatagc	attcgcctac	tccgtgaagt	300
ctagggacag	gaagatgggt	ggcgacgtga	ccggggccca	ggcctatgcc	tccaccgcca	360
agtgcctgaa	catctggggc	ctgattctgg	gcctcctcat	gaccattctg	ctcatcgtca	420
tcccagtgct	gatcttccag	gcctatggat	agatcaggag	gcctcactga	ggccaggagc	480
tctgcccatt	acctgtatcc	cacgtactcc	aacttccatt	cctcgcctcg	cccccgagc	540
cgagtcctgt	atcagccctt	tatcctcaca	cgcttttcta	caatggcatt	caataaagtg	600
cacgtgtttc	tggtgaaaaa	aaaaaaaaaa	aaaaaactcg	ag		642

<210> 120

<211> 603

<212> DNA

<213> Homo sapien

<400> 120

gaattcggca	cgagccacaa	cagccactac	gactgcatcc	actggatcca	cggccacccc	60
gtcctccacc	ccgggaacag	ctccccctcc	caaagtgctg	accagcccgg	ccaccacacc	120
catgtccacc	atgtccacaa	tccacacctc	ctctactcca	gagaccaccc	acacctccac	180
agtgtgacc	accacagcca	ccatgacaag	ggccaccaat	tccacggcca	cacctcctc	240
cactctgggg	acgacccgga	tcctcactga	gctgaccaca	acagccacta	caactgcagc	300
cactggatcc	acggccaccc	tgctcctccac	cccagggacc	acctggatcc	tcacagagcc	360
gagcactata	gccaccgtga	tggtgcccac	cgggttccacg	gccaccgcct	cctccactct	420
gggaacagct	cacaccccca	aagtgggtgac	caccatggcc	actatgccc	cagccactgc	480
ctccacgggt	cccagctcgt	ccaccgtggg	gaccaccgcg	acctctgcag	tgctccccag	540
cagcctgcca	accttcagcg	tgctccactgt	gtcctcctca	gtcctcacca	ccctgagacc	600
cac						603

<210> 121

<211> 178

<212> PRT

<213> Homo sapien

<400> 121

Ser	Glu	Pro	Pro	Ser	Pro	Ala	Thr	Thr	Pro	Cys	Gly	Lys	Val	Pro	Ile
1				5					10					15	
Cys	Ile	Pro	Ala	Arg	Arg	Asp	Leu	Val	Asp	Ser	Pro	Ala	Ser	Leu	Ala
			20					25					30		
Ser	Ser	Leu	Gly	Ser	Pro	Leu	Pro	Arg	Ala	Lys	Glu	Leu	Ile	Leu	Asn
		35				40					45				
Asp	Leu	Pro	Ala	Ser	Thr	Pro	Ala	Ser	Lys	Ser	Cys	Asp	Ser	Ser	Pro
	50					55					60				
Pro	Gln	Asp	Ala	Ser	Thr	Pro	Arg	Pro	Ser	Ser	Ala	Ser	His	Leu	Cys
65					70				75					80	
Gln	Leu	Ala	Ala	Lys	Pro	Ala	Pro	Ser	Thr	Asp	Ser	Val	Ala	Leu	Arg
			85					90					95		
Ser	Pro	Leu	Thr	Leu	Ser	Ser	Pro	Phe	Thr	Thr	Ser	Phe	Ser	Leu	Gly
			100					105					110		

Ser His Ser Thr Leu Asn Gly Asp Leu Ser Val Pro Ser Ser Tyr Val
 115 120 125
 Ser Leu His Leu Ser Pro Gln Val Ser Ser Ser Val Val Tyr Gly Arg
 130 135 140
 Ser Pro Val Met Ala Phe Glu Ser His Pro His Leu Arg Gly Ser Ser
 145 150 155 160
 Val Ser Ser Ser Leu Pro Ser Ile Pro Gly Gly Lys Pro Ala Tyr Ser
 165 170 175
 Phe His

<210> 122
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 122
 Met Ser Phe Leu Gly Gly Phe Phe Gly Pro Ile Cys Glu Ile Asp Val
 1 5 10 15
 Ala Leu Asn Asp Gly Glu Thr Arg Lys Met Ala Glu Met Lys Thr Glu
 20 25 30
 Asp Gly Lys Val
 35

<210> 123
 <211> 136
 <212> PRT
 <213> Homo sapien

<400> 123
 Met Ala Ser Pro Gln Leu Cys Arg Ala Leu Val Ser Ala Gln Trp Val
 1 5 10 15
 Ala Glu Ala Leu Arg Ala Pro Arg Ala Gly Gln Pro Leu Gln Leu Leu
 20 25 30
 Asp Ala Ser Trp Tyr Leu Pro Lys Leu Gly Arg Asp Ala Arg Arg Glu
 35 40 45
 Phe Glu Glu Arg His Ile Pro Gly Ala Ala Phe Phe Asp Ile Asp Gln
 50 55 60
 Cys Ser Asp Arg Thr Ser Pro Tyr Asp His Met Leu Pro Gly Ala Glu
 65 70 75 80
 His Phe Ala Glu Tyr Ala Gly Arg Leu Gly Val Gly Ala Ala Thr His
 85 90 95
 Val Val Ile Tyr Asp Ala Ser Asp Gln Gly Leu Tyr Ser Ala Pro Arg
 100 105 110
 Val Trp Trp Met Phe Arg Ala Phe Gly His His Ala Val Ser Leu Leu
 115 120 125
 Asp Gly Gly Leu Arg His Trp Leu
 130 135

<210> 124
 <211> 133
 <212> PRT
 <213> Homo sapien

<400> 124
 Met Asn His Thr Val Gln Thr Phe Phe Ser Pro Val Asn Ser Gly Gln
 1 5 10 15
 Pro Pro Asn Tyr Glu Met Leu Lys Glu Glu His Glu Val Ala Val Leu
 20 25 30
 Gly Ala Pro His Asn Pro Ala Pro Pro Thr Ser Thr Val Ile His Ile
 35 40 45
 Arg Ser Glu Thr Ser Val Pro Asp His Val Val Trp Ser Leu Phe Asn
 50 55 60
 Thr Leu Phe Met Asn Pro Cys Cys Leu Gly Phe Ile Ala Phe Ala Tyr
 65 70 75 80
 Ser Val Lys Ser Arg Asp Arg Lys Met Val Gly Asp Val Thr Gly Ala
 85 90 95
 Gln Ala Tyr Ala Ser Thr Ala Lys Cys Leu Asn Ile Trp Ala Leu Ile
 100 105 110
 Leu Gly Ile Leu Met Thr Ile Leu Leu Ile Val Ile Pro Val Leu Ile
 115 120 125
 Phe Gln Ala Tyr Gly
 130

<210> 125
 <211> 195
 <212> PRT
 <213> Homo sapien

<400> 125
 Thr Thr Ala Thr Thr Thr Ala Ser Thr Gly Ser Thr Ala Thr Pro Ser
 1 5 10 15
 Ser Thr Pro Gly Thr Ala Pro Pro Pro Lys Val Leu Thr Ser Pro Ala
 20 25 30
 Thr Thr Pro Met Ser Thr Met Ser Thr Ile His Thr Ser Ser Thr Pro
 35 40 45
 Glu Thr Thr His Thr Ser Thr Val Leu Thr Thr Thr Ala Thr Met Thr
 50 55 60
 Arg Ala Thr Asn Ser Thr Ala Thr Pro Ser Ser Thr Leu Gly Thr Thr
 65 70 75 80
 Arg Ile Leu Thr Glu Leu Thr Thr Thr Ala Thr Thr Thr Ala Ala Thr
 85 90 95
 Gly Ser Thr Ala Thr Leu Ser Ser Thr Pro Gly Thr Thr Trp Ile Leu
 100 105 110
 Thr Glu Pro Ser Thr Ile Ala Thr Val Met Val Pro Thr Gly Ser Thr
 115 120 125
 Ala Thr Ala Ser Ser Thr Leu Gly Thr Ala His Thr Pro Lys Val Val
 130 135 140
 Thr Thr Met Ala Thr Met Pro Thr Ala Thr Ala Ser Thr Val Pro Ser
 145 150 155 160
 Ser Ser Thr Val Gly Thr Thr Arg Thr Pro Ala Val Leu Pro Ser Ser
 165 170 175
 Leu Pro Thr Phe Ser Val Ser Thr Val Ser Ser Ser Val Leu Thr Thr
 180 185 190
 Leu Arg Pro
 195

<210> 126

<211> 509
 <212> DNA
 <213> Homo sapien

<400> 126
 gaattcggca cgagccaagt accccctgag gaatctgcag cctgcatctg agtacaccgt 60
 atccctcgtg gccataaagg gcaaccaaga gagcccaaaa gccactggag tctttaccac 120
 actgcagcct gggagctcta ttccacctta caacaccgag gtgactgaga ccaccattgt 180
 gatcacatgg acgcctgctc caagaattgg ttttaagctg ggtgtacgac caagccaggg 240
 aggagaggca ccacgagaag tgacttcaga ctcaggaagc atcgttgtgt ccggcttgac 300
 tccaggagta gaatacgtct acaccatcca agtcctgaga gatggacagg aaagagatgc 360
 gccaatgtta aacaaagtgg tgacaccatt gtctccacca acaaacttgc atctggaggc 420
 aaaccctgac actggagtgc tcacagtctc ctggagagga gcaccacccc agacattact 480
 gggatatagaa ttaccacaac ccctacaaa 509

<210> 127
 <211> 500
 <212> DNA
 <213> Homo sapien

<400> 127
 gaattcggca cgagccactg atgtccgggg agtcagccag gagcttgggg aagggaagcg 60
 cgccccggg gccggtcccg gagggctcga tccgcatcta cagcatgagg ttctgcccgt 120
 ttgctgagag gacgcgtcta gtcctgaagg ccaagggaat caggcatgaa gtcataata 180
 tcaacctgaa aaataagcct gagtggttct ttaagaaaaa tccctttggt ctggtgccag 240
 ttctggaaaa cagtcagggt cagctgatct acgagtctgc catcacctgt gagtacctgg 300
 atgaagcata cccagggaag aagctgttgc cggatgacc ctatgagaaa gcttgccaga 360
 agatgatctt agagttgttt tctaagggtgc catccttggt aggaagcttt attagaagcc 420
 aaaataaaga agactatgct ggcctaaaag aagaatttcg taaagaattt accaagctag 480
 aggaggttct gactaataag 500

<210> 128
 <211> 500
 <212> DNA
 <213> Homo sapien

<400> 128
 agctttcctc tgctgccgct cggtcacgct tgtgcccga ggaggaaaca gtgacagacc 60
 tggagactgc agttctctat ccttcacaca gctctttcac catgcctgga tcacttcctt 120
 tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt tgcccttgag atctattttc 180
 cttctcaata tggtgatcaa gcagagttgg aaaaatatga tgggtgtagat gctggaaagt 240
 ataccattgg cttgggccag gccaaagtgg gcttctgcac agatagagaa gatattaact 300
 ctctttgcat gactgtggtt cagaatctta tggagagaaa taacctttcc tatgattgca 360
 ttgggcggct ggaagttgga acagagacaa tcatcgacaa atcaaagtct gtgaagacta 420
 atttgatgca gctgtttgaa gagtctggga atacagatat agaaggaatc gacacaacta 480
 atgcatgcta tggaggcaca 500

<210> 129
 <211> 497
 <212> DNA
 <213> Homo sapien

<400> 129
 gaattcggca cgagcagagg tctccagagc cttctctctc ctgtgcaaaa tggcaactct 60

taaggaaaaa	ctcattgcac	cagttgcgga	agaagaggca	acagttccaa	acaataagat	120
cactgtagtg	ggtgttgac	aagttggtat	ggcgtgtgct	atcagcattc	tgggaaagtc	180
tctggctgat	gaacttgctc	ttgtggatgt	tttgggaagat	aagcttaaag	gagaaatgat	240
ggatctgcag	catgggagct	tatttcttca	gacacctaaa	attgtggcag	ataaagatta	300
ttctgtgacc	gccaatctta	agattgtagt	ggtaactgca	ggagtccgtc	agcaagaagg	360
ggagagtccg	ctcaatctgg	tgcagagaaa	tgttaatgtc	ttcaaattca	ttattcctca	420
gatcgtcaag	tacagtcctg	attgcatcat	aattgtgggt	tccaaccag	tggacattct	480
tacgtatgtt	acctgga					497

<210> 130

<211> 383

<212> DNA

<213> Homo sapien

<400> 130

gaattcggca	cgagggccgc	ggctgccgac	tgggtcccct	gccgctgtcg	ccaccatggc	60
tccgcaccgc	cccgcgccgc	cgctgctttg	cgcgctgtcc	ctggcgctgt	gcgcgctgtc	120
gctgcccgtc	cgcgcgccca	ctgcgtcgcg	gggggcgtcc	caggcggggg	cgccccaggg	180
gcgggtgccc	gagggcgggc	ccaacagcat	ggtggtggaa	caccccgagt	tcctcaaggc	240
agggaaggag	cctggcctgc	agatctggcg	tgtggagaaa	gttcgatctg	gtggcccgtg	300
cccaccaacc	tttatggaga	cttcttcacg	ggcgacgcct	acgtcatcct	gaagacagtg	360
cagcttaaga	acggaaaatc	ttg				383

<210> 131

<211> 509

<212> DNA

<213> Homo sapien

<400> 131

gaattcggca	cgagagtcag	ccgcattctc	ttttgcgtcg	ccagccgagc	cacatcgctc	60
agacaccatg	gggaagggtga	aggctcgagc	caacggattt	ggtcgtattg	ggcgccctgg	120
caccagggct	gcttttaact	ctggtaaagt	ggatattggt	gccatcaatg	accccttcat	180
tgacctcaac	tacatggttt	acatgttcca	atatgattcc	acccatggca	aattccatgg	240
caccgtcaag	gctgagaacg	ggaagcttgt	catcaatgga	aatcccatca	ccatcttcca	300
ggagcgagat	ccctccaaaa	tcaagtgggg	cgatgctggc	gctgagtagc	tcgtggagtc	360
cactggccgt	cttcaccacc	atggagaagg	ctggggctca	tttgcagggg	ggagccaaaa	420
gggtcatcat	ctctgcccc	tctgctgacg	cccccatggt	cgtcatgggt	gtgaaccatg	480
agaagtatga	caacagcctc	aagatcatc				509

<210> 132

<211> 357

<212> DNA

<213> Homo sapien

<400> 132

gaattcggca	cgagtaagaa	gaagccccta	gaccacagct	ccacaccatg	gactggacct	60
ggaggatcct	cttcttggtg	gcagcagcaa	caggtgccca	ctcccagggtg	caactgggtgc	120
aatctgggtc	tgagttgaag	aagcctgggg	cctcagtga	ggtttcctgc	aaggcttctg	180
gacacatctt	cagtatctat	ggtttgaatt	gggtgcgaca	ggcccctggg	caaggccttg	240
agtggatggg	atggatcaaa	gtcgacactg	cgaacccaac	gtatgccag	ggcttcacag	300
gacgatttgt	cttctccctg	gacacctctg	tcagcacggc	atatctgcag	atcagca	357

<210> 133

<211> 468

<212> DNA

<213> Homo sapien

<400> 133

gaattcggca	cgaggcgccc	cgaaccgtcc	tcttgctgct	ctcggcgggc	ctggccctga	60
ccgagacctg	ggccggctcc	cactccatga	ggtatttcga	caccgccatg	tcccggcccg	120
gccgcgggga	gccccgcttc	atctcagtgg	gctacgtgga	cgacacgcag	ttcgtgaggt	180
tcgacagcga	cgccgcgagt	ccgagagagg	agccgcgggc	gccgtggata	gagcaggagg	240
ggccggagta	ttgggaccgg	aacacacaga	tcttcaagac	caacacacag	actgaccgag	300
agagcctgcg	gaacctgcgc	ggctactaca	accagagcga	ggccgggtct	cacaccctcc	360
agagcatgta	cggctgcgac	gtggggccgg	acgggcgcct	cctccgcggg	cataaccagt	420
acgcctacga	cggcaaggat	tacatcgccc	tgaacgagga	cctgcgct		468

<210> 134

<211> 214

<212> DNA

<213> Homo sapien

<400> 134

gaattcggca	cgagctgcgt	cctgctgagc	tctgttctct	ccagcacctc	ccaaccact	60
agtgcctggg	tctcttgctc	caccaggaac	aagccaccat	gtctcgccag	tcaagtgtgt	120
ccttccggag	cgggggcagt	cgtagcttca	gcaccgcctc	tgccatcacc	ccgtctgtct	180
cccgcaccag	cttcacctcc	gtgtcccggg	ccgg			214

<210> 135

<211> 355

<212> DNA

<213> Homo sapien

<400> 135

gaattcggca	cgaggtgaac	aggaccctgc	gccatggggc	gtgtgatccg	tggacagagg	60
aagggcgccg	ggtctgtgtt	ccgcgcgcac	gtgaagcacc	gtaaaggcgc	tgcgcgcctg	120
cgcgccgtgg	atttcgctga	gcggcacggc	tacatcaagg	gcacgtcaa	ggacatcatc	180
cacgaccggg	gccgcggcgc	gcccctcgcc	aaggtgggtct	tccgggatcc	gtatcggttt	240
aagaagcgga	cggagctgtt	cattgccgcc	gagggcattc	acacggggca	gtttgtgtat	300
tgcggcaaga	aggcccagct	caacattggc	aatgtgctcc	ctgtgggcac	catgc	355

<210> 136

<211> 242

<212> DNA

<213> Homo sapien

<400> 136

gaattcggca	cgagccagct	cctaaccgcg	agtgatccgc	cagcctccgc	ctcccagaggt	60
gcccggattg	cagacggagt	ctccttcaact	cagtgtctca	tggtgcccag	gctggagtgc	120
agtgggtgtga	tctcggctcg	ctacaacatc	cacctcccag	cagcctgcct	tggcctccca	180
aagtgccgag	attgcagctc	tctgcccggc	cgccaccctc	gtctgggaag	tgaggatgct	240
gt						242

<210> 137

<211> 424

<212> DNA

<213> Homo sapien

<400> 137

gaattcggca	cgagcccaga	tcccgaggtc	cgacagcgcc	cggcccagat	ccccacgcct	60
gccaggagca	agccgagagc	cagccggccg	gcgcactccg	actccgagca	gtctctgtcc	120
ttcgaccgga	gccccgcgcc	ctttccggga	cccctgcccc	gcgggcagcg	ctgccaacct	180
gccggccatg	gagaccccgt	cccagcgggc	cgccacccgc	agcggggcgc	aggccagctc	240
cactccgctg	tcgcccaccc	gcatcacccg	gctgcaggag	aaggaggacc	tgcaggagct	300
caatgatcgc	ttggcggtct	acatcgaccg	tgtgcgctcg	ctggaaacgg	agaacgcagg	360
gctgcgcctt	cgcacacccg	agtctgaaga	ggtggtcagc	cgcgaggtgt	ccggcatcaa	420
ggcc						424

<210> 138

<211> 448

<212> DNA

<213> Homo sapien

<400> 138

gaattcggca	cgagcctgtg	ttccaggagc	cgaatcagaa	atgtcatcct	caggcacgcc	60
agacttacct	gtcctactca	ccgatttgaa	gattcaatat	actaagatct	tcataaacia	120
tgaatggcat	gattcagtga	gtggcaagaa	atttcctgtc	tttaatcctg	caactgagga	180
ggagctctgc	caggtagaag	aaggagataa	ggaggatgtt	gacaaggcag	tgaaggccgc	240
aagacaggct	tttcagattg	gatccccgtg	gcgtactatg	gatgcttccg	agagggggcg	300
actattatac	aagttggctg	atttaatcga	aagagatcgt	ctgctgctgg	ccgacaatgg	360
agtcaatgaa	tgggtgaaaa	ctctattcca	atgcatactt	gaatgattta	gcaggctgca	420
tcaaaacatt	gcgctactgt	gcagggttg				448

<210> 139

<211> 510

<212> DNA

<213> Homo sapien

<400> 139

gaattcggca	cgagggttccg	tgcagctcac	ggagaagcga	atggacaaaag	tcggcaagta	60
ccccaaaggag	ctgcgcaagt	gctgcgagga	cggcatgcgg	gagaacccca	tgagggttctc	120
gtgccagcgc	cggacccgtt	tcatctccct	ggcgaggcgt	gcaagaaggt	cttcctggac	180
tgctgcaact	acatcacaga	gctgcggcgg	cagcacgcgc	gggccagcca	cctggcctgc	240
caggagtaac	ctggatgagg	acatcattgc	agaagagaac	atcgtttccc	gaagtgagtt	300
cccagagagc	tggctgtgga	acgttgagga	cttgaaagag	ccaccgaaaa	atggaatctc	360
tacgaagctc	atgaatatat	ttttgaaaga	ctccatcacc	acgtgggaga	ttctggctgt	420
gagcatgtcg	gacaagaaag	ggatctgtgt	ggcagacccc	ttcgagggtca	cagtaatgca	480
ggacttcttc	atcgacctgc	ggctacccta				510

<210> 140

<211> 360

<212> DNA

<213> Homo sapien

<400> 140

gaattcggca	cgagcggttaa	ctacccccggc	tgcgcacagc	tcggcgctcc	ttcccgcctcc	60
ctcacacacc	ggcctcagcc	cgcaccggca	gtagaagatg	gtgaaagaaa	caacttacta	120
cgatgttttg	ggggtcaaac	ccaatgctac	tcaggaagaa	ttgaaaaagg	cttataggaa	180
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<210> 141
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 141
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<210> 142
 <211> 500
 <212> DNA
 <213> Homo sapien

<400> 142
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<210> 143
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 143
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 gtttgacaaa catttgcac tacttgggac aaagcaagaa 400

<210> 144
 <211> 243
 <212> DNA
 <213> Homo sapien

<400> 144
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agtgggtgtga tctcgggctcg ctacaacatc cacctcccag cagcctgcct tggcctccca	180
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ctg	243

<210> 145
 <211> 450
 <212> DNA
 <213> Homo sapien

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<210> 146
 <211> 451
 <212> DNA
 <213> Homo sapien

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<210> 147
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 147	
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<210> 148
 <211> 503
 <212> DNA
 <213> Homo sapien

<400> 148

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<210> 149

<211> 1061

<212> DNA

<213> Homo sapien

<400> 149

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<210> 150

<211> 781

<212> DNA

<213> Homo sapien

<400> 150

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<210> 151
 <211> 3275
 <212> DNA
 <213> Homo sapien

<400> 151

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<210> 152

<211> 2179

<212> DNA

<213> Homo sapien

<400> 152

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<210> 153
 <211> 2109
 <212> DNA
 <213> Homo sapien

<400> 153

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<210> 154
 <211> 1411
 <212> DNA
 <213> Homo sapien

<400> 154

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<210> 155

<211> 678

<212> DNA

<213> Homo sapien

<400> 155

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<210> 156

<211> 2668

<212> DNA

<213> Homo sapien

<400> 156

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<210> 157

<211> 2313

<212> DNA

<213> Homo sapien

<400> 157

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<210> 158

<211> 2114

<212> DNA

<213> Homo sapien

<400> 158

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<210> 159

<211> 278

<212> DNA

<213> Homo sapien

<400> 159

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<210> 160

<211> 848

<212> DNA

<213> Homo sapien

<400> 160

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<210> 161

<211> 432

<212> DNA
<213> Homo sapien

<400> 161
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ggaaggggaag ggcccaagta aagcacagcg cgggagccta gagcacatga agctgaccc 180
gcgtgataag gagaaggagg tggaatgtca gcaggagcat atccatgaac tccaggagct 240
caaagaccag ctggagcagc agctccaggg cctgcacagg aaggtaggtg agaccagcct 300
cctcctgtcc cagcgagagc aggaaatagt ggtcctgcag cagcaactgc aggaagccag 360
ggaacaaggg gagctgaagg agcagtcact tcagagtcaa ctggatgagg cccagagagc 420
cctagcccag ag 432

<210> 162
<211> 433
<212> DNA
<213> Homo sapien

<400> 162
gattcggcac gagccggagc tgggttgctc ctgctcccgt ctccaagtcc tggtagctcc 60
ttcaagctgg gagagggctc tagtccctgg ttctgaacac tctgggggttc tcgggtgcag 120
gccgccatga gcaaaccgaa ggcgccgcag gagactctca acgggggaat caccgacatg 180
ctcacagaac tgcgaaactt tgagaagaac gtgagccaag ctatccacaa gtacaatgct 240
tacagaaaag cagcatctgt tatagcaaaa taccacacaa aaataaagag tggagctgaa 300
gctaagaaat tgcctggagt aggaacaaaa attgctgaaa agattgatga gtttttagca 360
actggaaaat tacgtaaact ggaaaagatt cggcaggatg atacgagttc atccatcaat 420
ttcctgactc gag 432

<210> 163
<211> 432
<212> DNA
<213> Homo sapien

<400> 163
gaattcggca ccagatgagg ccaacgaggt gacggacagc gcgtacatgg gctccgagag 60
cacctacagt gagtgtgaga ccttcacgga cgaggacacc agcaccctgg tgcaccctga 120
gctgcaacct gaaggggacg cagacagtgc cggcggctcg gccgtgccct ctgagtgcct 180
ggacgccatg gaggagcccg accatggtgc cctgctgctg ctcccaggca ggcctcacc 240
ccatggccag tctgtcatca cggatgatcg gggcgaggag cactttgagg actacggtga 300
aggcagtgag gcggagctgt cccagagac cctatgcaac gggcagctgg gctgcagtga 360
ccccgctttc ctacgcccc gtccgacaaa gcggctctcc agcaagaagg tggcaaggta 420
cctgcaccag tc 432

<210> 164
<211> 395
<212> DNA
<213> Homo sapien

<400> 164
gacacttgaa tcatgggtga cgtaaaaaat tttctgtatg cctgggtgtgg caaaaggaag 60
atgaccccat cctatgaaat tagagcagtg gggaacaaaa acaggcagaa attcatgtgt 120
gaggttcagg tggaagggtta taattacact ggcattggaa attccaccaa taaaaaagat 180
gcacaaagca atgctgccag agactttgtt aactatttgg ttcgaataaa tgaaataaag 240
agtgaagaag ttccagcttt tggggtagca tctccgcccc cacttactga tactcctgac 300

actacagcaa atgctgaagg catcttggtg acatcgaata tgactttgat aataaatacc 360
 ggttcctgaa aaaaaaaaaa aaaaaaaaaac tcgag 395

<210> 165
 <211> 503
 <212> DNA
 <213> Homo sapien

<400> 165
 gaattcggca ccaggaacgc tcggtgagag gcggaggagc ggtaactacc ccggttgccg 60
 acagctcggc gctccttccc gctccctcac acaccggcct cagcccgcac cggcagtaga 120
 agatgggtgaa agaaacaact tactacgatg ttttgggggg caaacccaat gctactcagg 180
 aagaattgaa aaaggcttat aggaaactgg ccttgaagta ccatacctgat aagaacccaa 240
 atgaaggaga gaagttttaa cagatttctc aagcttacga agttctctct gatgcaaaga 300
 aaagggaatt atatgacaaa ggaggagAAC aggcaattaa agaggggtgga gcaggtggcg 360
 gttttggctc ccccatggac atctttgata tgttttttgg aggaggagga aggatgcaga 420
 gagaaaggag aggtaaaaat gttgtacatc agctctcagt aaccctagaa gacttatata 480
 atggtgcaac aagaaaactg gct 503

<210> 166
 <211> 893
 <212> DNA
 <213> Homo sapien

<400> 166
 gaattcggca cgagaggaac ttctcttgac gagaagagag accaaggagg ccaagcaggg 60
 gctgggccag aggtgccaac atggggaaac tgaggctcgg ctcggaaggg tgagagttag 120
 actacatctc aaaaaaaaaa aaaaaaaaaa aaagaaaga aaagaaaga aaaaagaaag 180
 aacggaagta gttgtaggta gtggtatggt ggtatgagtc tgttttctgt tacttataac 240
 aacaacaaca acaaaaaacg ctgaaactgg gtaatttata aagaaaagga aaaaaagcag 300
 aaaaaaatca ggaagaagag aaaggaaaag aagacaaata aatgaaattt atgtattaca 360
 gttctgaagg ctgagacatc ccaggccaag ggtccacact tggcgagggc tttcttgctg 420
 gtggagactc tttgtggagt cctgggacag tgcagaagga tcacgcctcc ctaccgctcc 480
 aagcccagcc ctacgccatg gcatgcccc tggatcaggc cattggcctc ctcggtggcca 540
 tcttccacaa gtactccggc agggagggtg acaagcacac cctgagcaag aaggagctga 600
 aggagctgat ccagaaggag ctacaccattg gctcgaagct gcaggatgct gaaattgcaa 660
 ggctgatgga agacttggac cggaacaagg accaggaggt gaacttccag gagtatgtca 720
 ccttcctggg ggccttggct ttgatctaca atgaagccct caagggtgta aaataaatag 780
 ggaagatgga gacaccctct gggggtcctc tctgagtcaa atccagtggg gggtaattgt 840
 acaataaatt ttttttggtc aaatttataa aaaaaaaaaa aaaaaaactc gag 893

<210> 167
 <211> 549
 <212> DNA
 <213> Homo sapien

<400> 167
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 gccaggagca agccgagagc cagccggccg gcgcactccg actccgagca gtctctgtcc 120
 ttcgaccgga gccccgcgcc ctttccggga cccctgcccc gcgggcagcg ctgccaacct 180
 gccggccatg gagaccccg tccagcggcg cgccaccgag agcggggcgc aggccagctc 240
 cactccgctg tcgcccaccc gcatcaccgg gctgcaggag aaggaggacc tgcaggagct 300
 caatgatcgc ttggcgggtc acatcgaccg tgtgcgctcg ctggaaacgg agaacgcagg 360
 gctgcgcctt cgcacaccgg agtctgaaga ggtggtcagc cgcgaggtgt ccggcatcaa 420

ggccgcctac	gaggccgagc	tcgggggatgc	ccgcaagacc	cttgactcag	tagccaagga	480
gcgcgccccg	ctgcagctgg	agctgagcaa	agtgcgtgaa	gagtttaagg	agctgaaagc	540
gcgcaatac						549

<210> 168
 <211> 547
 <212> DNA
 <213> Homo sapien

<400> 168						
gaattcggca	cgagatggcg	gcaggggtcg	aagcggcggc	ggaggtggcg	gcgacggaga	60
tcaaaatgga	ggaagagagc	ggcgcgcccc	gcgtgccgag	cggcaacggg	gctccggggc	120
ctaaggggtga	aggagaacga	cctgctcaga	atgagaagag	gaaggagaaa	aacataaaaa	180
gaggaggcaa	tcgctttgag	ccatatgcca	atccaactaa	aagatacaga	gccttcatta	240
caaacatacc	ttttgatgtg	aaatggcagt	cacttaaaga	cctgggttaa	gaaaaagttg	300
gtgaggtaac	atacgtggag	ctcttaatgg	acgtgaagg	aaagtcaagg	ggatgtgctg	360
ttgttgaatt	caagatggaa	gagagcatga	aaaaagctgc	ggaagtccta	aacaagcata	420
gtctgagcgg	aagaccactg	aaagtcaaag	aagatcctga	tggagaacat	gccaggagag	480
caatgcaaaa	ggctggaaga	cttggaagca	cagtatttgt	agcaaactct	gattataaag	540
ttggctg						547

<210> 169
 <211> 547
 <212> DNA
 <213> Homo sapien

<400> 169						
gaattcggca	ccaggagtcc	gactgtgctc	gctgctcagc	gccgcacccg	gaagatgagg	60
ctcgccgtgg	gagccctgct	ggtctgcgcc	gtcctggggc	tgtgtctggc	tgtccctgat	120
aaaactgtga	gatggtgtgc	agtgtcggag	catgaggcca	ctaagtgcc	gagtttccgc	180
gaccatatga	aaagcgtcat	tccatccgat	ggtcccagtg	ttgcttgtgt	gaagaaagcc	240
tcctaccttg	attgcatcag	ggccattgcg	gcaaacgaag	cggatgctgt	gacactggat	300
gcaggtttgg	tgtatgatgc	ttacctggct	cccaataacc	tgaagcctgt	ggtggcagag	360
ttctatgggt	caaaagagga	tccacagact	ttctattatg	ctgttgctgt	ggtgaagaag	420
gatagtggct	tccagatgaa	ccagcttcga	ggcaagaagt	cctgccacac	gggtctaggg	480
aggtccgctg	ggtggaacat	ccccataggg	ttactttact	gtgacttacc	tgagccacgt	540
aaacctc						547

<210> 170
 <211> 838
 <212> DNA
 <213> Homo sapien

<400> 170						
gaattcggca	ccagaggagc	tcggcctgcg	ctgcgccacg	atgtccgggg	agtcagccag	60
gagcttgggg	aagggaagcg	cgcccccg	gccggtccc	gagggtcga	tccgcatcta	120
cagcatgagg	ttctgcccgt	ttgctgagag	gacgcgtcta	gtcctgaagg	ccaagggaat	180
caggcatgaa	gtcatcaata	tcaacctgaa	aaataagcct	gagtgggtct	ttaagaaaaa	240
tcccttttgt	ctggtgccag	ttctggaaaa	cagtcagggt	cagctgatct	acgagtctgc	300
catcacctgt	gagtacctgg	atgaagcata	cccagggaag	aagctggtgc	cggatgaccc	360
ctatgagaaa	gcttgccaga	agatgatctt	agagttgttt	tctaagggtg	catccttggt	420
aggaagcttt	attagaagcc	aaaataaaga	agactatgat	ggcctaaaag	aagaatttcg	480
taaagaattt	accaagctag	aggaggttct	gactaataag	aagacgacct	tctttggtgg	540
caattctatc	tctatgattg	attacctcat	ctggccctgg	tttgaacggc	tggaagcaat	600

gaagttaa	aat	gagtgt	tag	accacact	cc	aaaact	gaaa	ctgtgg	atgg	cagccat	gaa	660
ggaagat	ccc	acagtct	cag	ccctgctt	ac	tagtgaga	aaa	gactgg	caag	gtttcct	taga	720
gctctact	ta	cagaac	agcc	ctgagg	cctg	tgactat	ggg	ctctga	agg	ggcagg	agtc	780
agcaataa	ag	ctatgt	ctga	tattttc	cct	cactaaaa	aaa	aaaaaaaa	aaa	aactcg	ag	838

<210> 171

<211> 547

<212> DNA

<213> Homo sapien

<400> 171

gaattc	ggca	ccagc	gggat	ttggg	tcgca	gttctt	gttt	gtggat	tgt	gtgat	cgta	60
cttgaca	aatg	cagat	cttcg	tgaag	actct	gactgg	taag	accat	cacc	tcgag	gttg	120
gccagtg	ac	accat	cgaga	atgtc	aaggc	aaagat	ccaa	gataa	ggaag	gcatc	ccct	180
tgaccag	cag	aggct	gatct	ttgct	ggaaa	acagct	ggaa	gatggg	cgca	ccctg	tctga	240
ctacaac	atc	cagaa	agagt	ccacc	ctgca	cctgg	tgtc	cgtct	cagag	gtggg	atgca	300
aatcttc	gtg	aagac	actca	ctggc	aagac	catcac	ccct	gaggt	cgagc	ccagt	gacac	360
catcgag	aac	gtcaa	agcaa	agatc	ccagga	caagga	aaggc	attcct	ccctg	accag	cgag	420
gttgat	cttt	gccgg	aaagc	agctg	gaaga	tgggc	gcacc	ctgtct	gact	acaac	atcca	480
gaaagag	tct	accct	gcacc	tgggt	gctccg	tctcag	agggt	gggat	gcaga	tcttc	gtgaa	540
gaccctg												547

<210> 172

<211> 608

<212> DNA

<213> Homo sapien

<400> 172

gaattc	ggca	ccagag	actt	ctccct	ctga	ggcctg	cgca	ccctc	ctca	tcagc	ctgtc	60
caccct	catc	tacaat	ggtg	ccctg	ccatg	tcagt	gcaac	cctca	agggt	cactg	agttc	120
tgagt	gcaac	cctcat	ggtg	gtcag	tgcct	gtgca	agcct	ggagt	ggtt	ggcgc	cgctg	180
tgacct	ctgt	gccctg	ggct	actat	ggctt	tggccc	caca	ggctg	tcaag	gcgct	tgcct	240
gggct	gccgt	gatcac	acag	ggggt	gagca	ctgtg	aaagg	tgcatt	gctg	gtttc	acagg	300
ggaccc	acgg	ctgcc	atatg	ggggc	ccagt	ccggc	ccctgt	ccctg	tctg	aaggc	ccctg	360
gagcca	acgg	cacttt	tgcta	cttctt	tgcca	ccagg	atgaa	tattc	ccagc	agatt	gtgtg	420
ccactg	ccgg	gcagg	ctata	cgggg	ctgcg	atgtg	aaagct	tgtgc	ccctg	ggcact	tttgg	480
ggaccc	atca	aggcc	agggt	gccgg	tgcc	actgt	gtgag	tgcag	tggga	acatt	gaccc	540
aatgg	atcct	gatgc	ctgtg	acccc	acac	ggggc	aatgc	ctgcg	ctgtt	tacacc	acac	600
agagg	gtc											608

<210> 173

<211> 543

<212> DNA

<213> Homo sapien

<400> 173

gaattc	ggca	ccagag	atca	tccgcc	agca	gggtct	ggcc	tcctac	gact	acgtg	cgccg	60
ccgcct	cacg	gctgag	gacc	tgttcg	aggc	tcggat	catc	tctctc	gaga	cctaca	acct	120
gctccg	ggag	ggcacc	agga	gcctcc	gtga	ggctct	cgag	gcggag	tccg	cctgg	tgcta	180
cctctat	ggc	acggg	ctccg	tggtct	gggt	ctacct	gccc	ggttcc	aggc	agacac	tgag	240
catctac	cag	gctct	caaga	aagggt	ctgt	gagtgc	ccag	gtggcc	cgcc	tgctg	ctgga	300
ggcacag	gca	gccac	aggct	tcctg	ctgga	cccgt	tgaag	gggga	acggc	tgact	gtgga	360
tgaag	ctgtg	cggaag	ggcc	tcgtg	gggcc	cgaact	gcac	gaccgc	ctgc	tctcg	gctga	420
gcgggc	gggtc	accgg	ctacc	gtgacc	cccta	caccg	agcag	accat	ctcgc	tcttc	ccaggc	480

catgaagaag gaactgatcc ctactgagga ggcctgcggt ctgtggatgc ccagctggcc 540
acc 543

<210> 174
<211> 548
<212> DNA
<213> Homo sapien

<400> 174
gaattcggca cgagaaatgg cggcaggggt cgaagcggcg gcggaggtgg cggcgacgga 60
gatcaaaatg gaggaagaga gcggcgcgcc cggcgtgccg agcggcaacg gggctccggg 120
ccctaagggt gaaggagaac gacctgctca gaatgagaag aggaaggaga aaaacataaa 180
aagaggaggc aatcgctttg agccatatgc caatccaact aaaagataca gaggcttcat 240
tacaacata ccttttgatg tgaaatggca gtcacttaaa gacctggtta aagaaaaagt 300
tggtgaggta acatacgtgg agctcttaat ggacgctgaa ggaaagtcaa ggggatgtgc 360
tggtgttgaa ttcaagatgg aagagagcat gaaaaagct gcggaagtcc taaacaagca 420
tagtctgagc ggaagaccac tgaaagtcaa agaagatcct gatggtgaac atgccaggag 480
agcaatgcaa aaggtgatgg ctacgactgg tgggatgggt atgggaccag gtggcccagg 540
aatgatta 548

<210> 175
<211> 604
<212> DNA
<213> Homo sapien

<400> 175
gaattcggca ccagaggacc tccaggacat gttcatcgtc cataccatcg aggagattga 60
gggcctgata tcagcccatg accagttcaa gtccaccctg ccggacgccg atagggagcg 120
cgaggccatc ctggccatcc acaaggaggc ccagaggatc gctgagagca accacatcaa 180
gctgtcgggc agcaaccctt acaccaccgt caccgccgaa atcatcaact ccaagtggga 240
gaaggtgcag cagctggtgc caaaacggga ccatgccctc ctggaggagc agagcaagca 300
gcagtccaac gagcacctgc gccgccagtt cgccagccag gccaatgttg tggggccctg 360
gatccagacc aagatggagg agatcgggcg catctccatt gagatgaacg ggaccctgga 420
ggaccagctg agccacctga agcagtatga acgcagcatc gtggactaca agcccaacct 480
ggacctgctg gagcagcagc accagcttat ccaggaggcc ctcatcttcg acaacaagca 540
caccaactat accatggagc acatccgcgt gggctgggag cagctgctca ccaccattgc 600
ccgg 604

<210> 176
<211> 486
<212> DNA
<213> Homo sapien

<400> 176
gaattcggca ccagccaagc tcactattga atccacgccg ttcaatgtcg cagaggggaa 60
ggaggttctt ctactcgccc acaacctgcc ccagaatcgt attgggtaca gctggtacaa 120
aggcgaaaga gtggatggca acagtctaat tgtaggatat gtaataggaa ctcaacaagc 180
taccacaggc cccgcataca gtggctcgaga gacaatatac cccaatgcat ccctgctgat 240
ccagaacgtc acccagaatg acacaggatt ctatacccta caagtcataa agtcagatct 300
tgtgaatgaa gaagcaaccg gacagttcca tgtatacccg gagctgcccc agccctccat 360
ctccagcaac aactccaacc ccgtggagga caaggatgct gtggccttca cctgtgaacc 420
tgaggttcag aacacaacct acctgtggtg ggtaaattgt cagagcctcc cggtcagtcc 480
caaggc 486

<210> 177
 <211> 387
 <212> DNA
 <213> Homo sapien

<400> 177
 gaattcggca ccagggacag cagaccagac agtcacagca gccttgacaa aacgttcctg 60
 gaactcaagc tcttctccac agaggaggac agagcagaca gcagagacca tggagtctcc 120
 ctcgccccct cccacacagat ggtgcatccc ctggcagagg ctcttgctca cagcctcact 180
 tctaaccctt tggaaacccgc ccaccactgc caagctcact attgaatcca cgccgttcaa 240
 tgtcgcagag gggaaggagg tgcttctact tgtccacaat ctgccccagc atcttttttg 300
 ctacagctgg taaaagggtg aaagagtggg tggcaaccgt caaattatag gatattgta 360
 aggaactcaa caagctaccc cagggcc 387

<210> 178
 <211> 440
 <212> DNA
 <213> Homo sapien

<400> 178
 gaattcggca cgaggagaag cagaaaaaca aggaatttag ccagacttta gaaaatgaga 60
 aaaatacctt actgagtcag atatcaacaa aggatgggtg actaaaaatg cttcaggagg 120
 aagtaaccaa aatgaacctg ttaaatacagc aaatccaaga agaactctct agagttacca 180
 aactaaagga gacagcagaa gaagagaaaag atgatttgga agagaggctt atgaatcaat 240
 tagcagaact taatggaagc attgggaatt actgtcagga tggttacagat gcccaaataa 300
 aaaatgagct attggaatct gaaatgaaga accttaaaaa gtgtgtgagt gaattggaag 360
 aagaaaagca gcagttagtc aaggaaaaaa ctaagggtgga atcagaaata cgaaaggaat 420
 atttgagaa aatacaagg 440

<210> 179
 <211> 443
 <212> DNA
 <213> Homo sapien

<400> 179
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 cgggctgctg gcgggcaacg agaagctaac catgcagaac ctcaacgacc gcctggcctc 120
 ctacctggac aaggtgcgcg ccctggaggc ggccaacggc gagctagagg tgaagatccg 180
 cgactggtac cagaagcagg ggccctgggc ctcccgcgac tacagccact actacacgac 240
 catccaggac ctgcgggaca agattcttg tgcaccatt gagaactcca ggattgtcct 300
 gcagatcgac aacgcccgtc tggctgcaga tgacttccga accaagtttg agacggaaca 360
 ggctctgcgc atgagcgtgg aggccgacat caacggcctg cgcagggtgc tggatgagct 420
 gaccctggcc aggaccgacc tgg 443

<210> 180
 <211> 403
 <212> DNA
 <213> Homo sapien

<400> 180
 gaattcggca cgaggttatg agagtcgact tcaatgttcc tatgaagaac aaccagataa 60
 caaacaacca gaggattaag gctgctgtcc caagcatcaa attctgcttg gacaatggag 120
 ccaagtcggt agtccttatg agccacctag gccggcctga tgggtgtgcc atgcctgaca 180
 agtactcctt agagccagtt gctgtagaac tcagatctct gctgggcaag gatgttctgt 240

tcttgaagga ctgtgtaggc ccagaagtgg agaaagcctg tgccaaccca gctgctgggt 300
 ctgtcatcct gctggagAAC ctccgctttc atgtggagga agaagggaag ggaaaagatg 360
 cttctgggaa caagggttaa gccgagccag ccaaaataga agc 403

<210> 181
 <211> 493
 <212> DNA
 <213> Homo sapien

<400> 181
 gaattcggca ccagcagagg tctccagagc cttctctctc ctgtgcaaaa tggcaactct 60
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 cactgtagtg ggtgttgac aagttggtat ggcgtgtgct atcagcattc tgggaaagtc 180
 tctggctgat gaacttgctc ttgtggatgt tttggaagat aagcttaaag gagaaatgat 240
 ggatctgcag catgggagct tatttcttca gacacctaaa attgtggcag ataaagatta 300
 ttctgtgacc gccaatctta agattgtagt ggtaactgca ggagtccgct agcaagaagg 360
 ggagagtcgg ctcaatctgg tgcagagaaa tgttaatgtc ttcaaattca ttattcctca 420
 gatcgtcaag tacagtcctg attgcatcat aattgtggtt tccaaccagc tggacattct 480
 tacgtatggt acc 493

<210> 182
 <211> 209
 <212> PRT
 <213> Homo sapien

<400> 182
 Ala Phe Ser Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly
 1 5 10 15
 Ala Leu Gln Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr
 20 25 30
 Ala Lys Lys Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe
 35 40 45
 Pro Tyr Ala Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu
 50 55 60
 Arg Thr Leu Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val
 65 70 75 80
 Val Thr Leu Leu Tyr Asp Leu Val Thr Glu Lys Met Phe Ala Glu Glu
 85 90 95
 Glu Ala Glu Leu Thr Gln Glu Met Ser Pro Glu Lys Leu Gln Gln Tyr
 100 105 110
 Arg Gln Val His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu
 115 120 125
 Ile Thr Ala His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys
 130 135 140
 Val Leu Gln Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr
 145 150 155 160
 Arg Gln Asp Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu
 165 170 175
 Tyr Gln Val Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly
 180 185 190
 Tyr Phe Gln Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu
 195 200 205
 Arg

<210> 183
 <211> 255
 <212> PRT
 <213> Homo sapien

<400> 183
 Met Ala Ala Gly Val Glu Ala Ala Ala Glu Val Ala Ala Thr Glu Pro
 1 5 10 15
 Lys Met Glu Glu Glu Ser Gly Ala Pro Cys Val Pro Ser Gly Asn Gly
 20 25 30
 Ala Pro Gly Pro Lys Gly Glu Glu Arg Pro Thr Gln Asn Glu Lys Arg
 35 40 45
 Lys Glu Lys Asn Ile Lys Arg Gly Gly Asn Arg Phe Glu Pro Tyr Ser
 50 55 60
 Asn Pro Thr Lys Arg Tyr Arg Ala Phe Ile Thr Asn Ile Pro Phe Asp
 65 70 75 80
 Val Lys Trp Gln Ser Leu Lys Asp Leu Val Lys Glu Lys Val Gly Glu
 85 90 95
 Val Thr Tyr Val Glu Leu Leu Met Asp Ala Glu Gly Lys Ser Arg Gly
 100 105 110
 Cys Ala Val Val Glu Phe Lys Met Glu Glu Ser Met Lys Lys Ala Ala
 115 120 125
 Glu Val Leu Asn Lys His Ser Leu Ser Gly Arg Pro Leu Lys Val Lys
 130 135 140
 Glu Asp Pro Asp Gly Glu His Ala Arg Arg Ala Met Gln Lys Ala Gly
 145 150 155 160
 Arg Leu Gly Ser Thr Val Phe Val Ala Asn Leu Asp Tyr Lys Val Gly
 165 170 175
 Trp Lys Lys Leu Lys Glu Val Phe Ser Met Ala Gly Val Val Val Arg
 180 185 190
 Ala Asp Ile Leu Glu Asp Lys Asp Gly Lys Ser Arg Gly Ile Gly Ile
 195 200 205
 Val Thr Phe Glu Gln Ser Ile Glu Ala Val Gln Ala Ile Ser Met Phe
 210 215 220
 Asn Gly Gln Leu Leu Phe Asp Arg Pro Met His Val Lys Met Asp Glu
 225 230 235 240
 Arg Ala Leu Pro Lys Gly Asp Phe Phe Pro Pro Glu Arg His Ser
 245 250 255

<210> 184
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 <212> PRT
 <213> Homo sapien

<400> 184
 Leu Ser Gly Ser Cys Ile Arg Arg Glu Gln Thr Pro Glu Lys Glu Lys
 1 5 10 15
 Gln Val Val Leu Phe Glu Glu Ala Ser Trp Thr Cys Thr Pro Ala Cys
 20 25 30
 Gly Asp Glu Pro Arg Thr Val Ile Leu Leu Ser Ser Met Leu Ala Asp
 35 40 45
 His Arg Leu Lys Leu Glu Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu
 50 55 60

His	Leu	Asn	Pro	Asp	Gln	Leu	Glu	Ala	Val	Glu	Lys	Tyr	Glu	Glu	Val
65					70					75					80
Leu	His	Asn	Leu	Glu	Phe	Ala	Lys	Glu	Leu	Gln	Lys	Thr	Phe	Ser	Gly
				85					90					95	
Leu	Ser	Leu	Asp	Leu	Leu	Lys	Ala	Gln	Lys	Lys	Ala	Gln	Arg	Arg	Glu
			100					105					110		
His	Met	Leu	Lys	Leu	Glu	Ala	Glu	Lys	Lys	Lys	Leu	Arg	Thr	Ile	Leu
		115					120					125			
Gln	Val	Gln	Tyr	Val	Leu	Gln	Asn	Leu	Thr	Gln	Glu	His	Val	Gln	Lys
	130					135					140				
Asp	Phe	Lys	Gly	Gly	Leu	Asn	Gly	Ala	Val	Tyr	Leu	Pro	Ser	Lys	Glu
145					150					155					160
Leu	Asp	Tyr	Leu	Ile	Lys	Phe	Ser	Lys	Leu	Thr	Cys	Pro	Glu	Arg	Asn
				165					170					175	
Glu	Ser	Leu	Arg	Gln	Thr	Leu	Glu	Gly	Ser	Thr	Val				
			180					185							

<210> 185

<211> 746

<212> PRT

<213> Homo sapien

<400> 185

Asp	Lys	His	Leu	Lys	Asp	Leu	Leu	Ser	Lys	Leu	Leu	Asn	Ser	Gly	Tyr
1				5					10					15	
Phe	Glu	Ser	Ile	Pro	Val	Pro	Lys	Asn	Ala	Lys	Glu	Lys	Glu	Val	Pro
			20					25					30		
Leu	Glu	Glu	Glu	Met	Leu	Ile	Gln	Ser	Glu	Lys	Lys	Thr	Gln	Leu	Ser
		35					40					45			
Lys	Thr	Glu	Ser	Val	Lys	Glu	Ser	Glu	Ser	Leu	Met	Glu	Phe	Ala	Gln
	50					55					60				
Pro	Glu	Ile	Gln	Pro	Gln	Glu	Phe	Leu	Asn	Arg	Arg	Tyr	Met	Thr	Glu
65					70					75					80
Val	Asp	Tyr	Ser	Asn	Lys	Gln	Gly	Glu	Glu	Gln	Pro	Trp	Glu	Ala	Asp
				85				90					95		
Tyr	Ala	Arg	Lys	Pro	Asn	Leu	Pro	Lys	Arg	Trp	Asp	Met	Leu	Thr	Glu
			100					105					110		
Pro	Asp	Gly	Gln	Glu	Lys	Lys	Gln	Glu	Ser	Phe	Lys	Ser	Trp	Glu	Ala
		115					120					125			
Ser	Gly	Lys	His	Gln	Glu	Val	Ser	Lys	Pro	Ala	Val	Ser	Leu	Glu	Gln
	130					135					140				
Arg	Lys	Gln	Asp	Thr	Ser	Lys	Leu	Arg	Ser	Thr	Leu	Pro	Glu	Glu	Gln
145					150					155					160
Lys	Lys	Gln	Glu	Ile	Ser	Lys	Ser	Lys	Pro	Ser	Pro	Ser	Gln	Trp	Lys
				165					170					175	
Gln	Asp	Thr	Pro	Lys	Ser	Lys	Ala	Gly	Tyr	Val	Gln	Glu	Glu	Gln	Lys
			180					185					190		
Lys	Gln	Glu	Thr	Pro	Lys	Leu	Trp	Pro	Val	Gln	Leu	Gln	Lys	Glu	Gln
		195					200					205			
Asp	Pro	Lys	Lys	Gln	Thr	Pro	Lys	Ser	Trp	Thr	Pro	Ser	Met	Gln	Ser
	210					215					220				
Glu	Gln	Asn	Thr	Thr	Lys	Ser	Trp	Thr	Thr	Pro	Met	Cys	Glu	Glu	Gln
225					230					235					240
Asp	Ser	Lys	Gln	Pro	Glu	Thr	Pro	Lys	Ser	Trp	Glu	Asn	Asn	Val	Glu

				245				250					255				
Ser	Gln	Lys	His	Ser	Leu	Thr	Ser	Gln	Ser	Gln	Ile	Ser	Pro	Lys	Ser		
			260					265					270				
Trp	Gly	Val	Ala	Thr	Ala	Ser	Leu	Ile	Pro	Asn	Asp	Gln	Leu	Leu	Pro		
		275					280					285					
Arg	Lys	Leu	Asn	Thr	Glu	Pro	Lys	Asp	Val	Pro	Lys	Pro	Val	His	Gln		
	290					295					300						
Pro	Val	Gly	Ser	Ser	Ser	Thr	Leu	Pro	Lys	Asp	Pro	Val	Leu	Arg	Lys		
305					310					315					320		
Glu	Lys	Leu	Gln	Asp	Leu	Met	Thr	Gln	Ile	Gln	Gly	Thr	Cys	Asn	Phe		
				325				330						335			
Met	Gln	Glu	Ser	Val	Leu	Asp	Phe	Asp	Lys	Pro	Ser	Ser	Ala	Ile	Pro		
			340				345						350				
Thr	Ser	Gln	Pro	Pro	Ser	Ala	Thr	Pro	Gly	Ser	Pro	Val	Ala	Ser	Lys		
		355					360						365				
Glu	Gln	Asn	Leu	Ser	Ser	Gln	Ser	Asp	Phe	Leu	Gln	Glu	Pro	Leu	Gln		
	370					375					380						
Val	Phe	Asn	Val	Asn	Ala	Pro	Leu	Pro	Pro	Arg	Lys	Glu	Gln	Glu	Ile		
385					390					395					400		
Lys	Glu	Ser	Pro	Tyr	Ser	Pro	Gly	Tyr	Asn	Gln	Ser	Phe	Thr	Thr	Ala		
				405					410					415			
Ser	Thr	Gln	Thr	Pro	Pro	Gln	Cys	Gln	Leu	Pro	Ser	Ile	His	Val	Glu		
			420					425					430				
Gln	Thr	Val	His	Ser	Gln	Glu	Thr	Ala	Ala	Asn	Tyr	His	Pro	Asp	Gly		
		435					440					445					
Thr	Ile	Gln	Val	Ser	Asn	Gly	Ser	Leu	Ala	Phe	Tyr	Pro	Ala	Gln	Thr		
	450					455					460						
Asn	Val	Phe	Pro	Arg	Pro	Thr	Gln	Pro	Phe	Val	Asn	Ser	Arg	Gly	Ser		
465					470					475					480		
Val	Arg	Gly	Cys	Thr	Arg	Gly	Gly	Arg	Leu	Ile	Thr	Asn	Ser	Tyr	Arg		
				485					490					495			
Ser	Pro	Gly	Gly	Tyr	Lys	Gly	Phe	Asp	Thr	Tyr	Arg	Gly	Leu	Pro	Ser		
			500					505					510				
Ile	Ser	Asn	Gly	Asn	Tyr	Ser	Gln	Leu	Gln	Phe	Gln	Ala	Arg	Glu	Tyr		
		515					520					525					
Ser	Gly	Ala	Pro	Tyr	Ser	Gln	Arg	Asp	Asn	Phe	Gln	Gln	Cys	Tyr	Lys		
	530					535					540						
Arg	Gly	Gly	Thr	Ser	Gly	Gly	Pro	Arg	Ala	Asn	Ser	Arg	Ala	Gly	Trp		
545					550					555					560		
Ser	Asp	Ser	Ser	Gln	Val	Ser	Ser	Pro	Glu	Arg	Asp	Asn	Glu	Thr	Phe		
				565					570					575			
Asn	Ser	Gly	Asp	Ser	Gly	Gln	Gly	Asp	Ser	Arg	Ser	Met	Thr	Pro	Val		
			580				585						590				
Asp	Val	Pro	Val	Thr	Asn	Pro	Ala	Ala	Thr	Ile	Leu	Pro	Val	His	Val		
		595					600					605					
Tyr	Pro	Leu	Pro	Gln	Gln	Met	Arg	Val	Ala	Phe	Ser	Ala	Ala	Arg	Thr		
	610					615					620						
Ser	Asn	Leu	Ala	Pro	Gly	Thr	Leu	Asp	Gln	Pro	Ile	Val	Phe	Asp	Leu		
625					630					635					640		
Leu	Leu	Asn	Asn	Leu	Gly	Glu	Thr	Phe	Asp	Leu	Gln	Leu	Gly	Arg	Phe		
				645					650					655			
Asn	Cys	Pro	Val	Asn	Gly	Thr	Tyr	Val	Phe	Ile	Phe	His	Met	Leu	Lys		
			660					665					670				
Leu	Ala	Val	Asn	Val	Pro	Leu	Tyr	Val	Asn	Leu	Met	Lys	Asn	Glu	Glu		

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<211>	705															
<212>	PRT															
<213>	Homo sapien															
<400>	186															
Ala	Leu	Leu	Asn	Val	Arg	Gln	Pro	Pro	Ser	Thr	Thr	Thr	Phe	Val	Leu	
1				5					10					15		
Asn	Gln	Ile	Asn	His	Leu	Pro	Pro	Leu	Gly	Ser	Thr	Ile	Val	Met	Thr	
			20					25					30			
Lys	Thr	Pro	Pro	Val	Thr	Thr	Asn	Arg	Gln	Thr	Ile	Thr	Leu	Thr	Lys	
		35					40					45				
Phe	Ile	Gln	Thr	Thr	Ala	Ser	Thr	Arg	Pro	Ser	Val	Ser	Ala	Pro	Thr	
	50					55					60					
Val	Arg	Asn	Ala	Met	Thr	Ser	Ala	Pro	Ser	Lys	Asp	Gln	Val	Gln	Leu	
65					70					75					80	
Lys	Asp	Leu	Leu	Lys	Asn	Asn	Ser	Leu	Asn	Glu	Leu	Met	Lys	Leu	Lys	
				85					90					95		
Pro	Pro	Ala	Asn	Ile	Ala	Gln	Pro	Val	Ala	Thr	Ala	Ala	Thr	Asp	Val	
			100					105					110			
Ser	Asn	Gly	Thr	Val	Lys	Lys	Glu	Ser	Ser	Asn	Lys	Glu	Gly	Ala	Arg	
		115					120					125				
Met	Trp	Ile	Asn	Asp	Met	Lys	Met	Arg	Ser	Phe	Ser	Pro	Thr	Met	Lys	
	130					135					140					
Val	Pro	Val	Val	Lys	Glu	Asp	Asp	Glu	Pro	Glu	Glu	Glu	Asp	Glu	Glu	
145					150					155					160	
Glu	Met	Gly	His	Ala	Glu	Thr	Tyr	Ala	Glu	Tyr	Met	Pro	Ile	Lys	Leu	
				165					170					175		
Lys	Ile	Gly	Leu	Arg	His	Pro	Asp	Ala	Val	Val	Glu	Thr	Ser	Ser	Leu	
			180					185					190			
Ser	Ser	Val	Thr	Pro	Pro	Asp	Val	Trp	Tyr	Lys	Thr	Ser	Ile	Ser	Glu	
		195					200					205				
Glu	Thr	Ile	Asp	Asn	Gly	Trp	Leu	Ser	Ala	Leu	Gln	Leu	Glu	Ala	Ile	
	210					215					220					
Thr	Tyr	Ala	Ala	Gln	Gln	His	Glu	Thr	Phe	Leu	Pro	Asn	Gly	Asp	Arg	
225					230					235					240	
Ala	Gly	Phe	Leu	Ile	Gly	Asp	Gly	Ala	Gly	Val	Gly	Lys	Gly	Arg	Thr	
				245					250					255		
Ile	Ala	Gly	Ile	Ile	Tyr	Glu	Asn	Tyr	Leu	Leu	Ser	Arg	Lys	Arg	Ala	
			260					265					270			
Leu	Trp	Phe	Ser	Val	Ser	Asn	Asp	Leu	Lys	Tyr	Asp	Ala	Glu	Arg	Asp	
		275					280					285				
Leu	Arg	Asp	Ile	Gly	Ala	Lys	Asn	Ile	Leu	Val	His	Ser	Leu	Asn	Lys	
	290						295					300				

Phe Lys Tyr Gly Lys Ile Ser Ser Lys His Asn Gly Ser Val Lys Lys
 305 310 315 320
 Gly Val Ile Phe Ala Thr Tyr Ser Ser Leu Ile Gly Glu Ser Gln Ser
 325 330 335
 Gly Gly Lys Tyr Lys Thr Arg Leu Lys Gln Leu Leu His Trp Cys Gly
 340 345 350
 Asp Asp Phe Asp Gly Val Ile Val Phe Asp Glu Cys His Lys Ala Lys
 355 360 365
 Asn Leu Cys Pro Val Gly Ser Ser Lys Pro Thr Lys Thr Gly Leu Ala
 370 375 380
 Val Leu Glu Leu Gln Asn Lys Leu Pro Lys Ala Arg Val Val Tyr Ala
 385 390 395 400
 Ser Ala Thr Gly Ala Ser Glu Pro Arg Asn Met Ala Tyr Met Asn Arg
 405 410 415
 Leu Gly Ile Trp Gly Glu Gly Thr Pro Phe Arg Glu Phe Ser Asp Phe
 420 425 430
 Ile Gln Ala Val Glu Arg Arg Gly Val Gly Ala Met Glu Ile Val Ala
 435 440 445
 Met Asp Met Lys Leu Arg Gly Met Tyr Ile Ala Arg Gln Leu Ser Phe
 450 455 460
 Thr Gly Val Thr Phe Lys Ile Glu Glu Val Leu Leu Ser Gln Ser Tyr
 465 470 475 480
 Val Lys Met Tyr Asn Lys Ala Val Lys Leu Trp Val Ile Ala Arg Glu
 485 490 495
 Arg Phe Gln Gln Ala Ala Asp Leu Ile Asp Ala Glu Gln Arg Met Lys
 500 505 510
 Lys Ser Met Trp Gly Gln Phe Trp Ser Ala His Gln Arg Phe Phe Lys
 515 520 525
 Tyr Leu Cys Ile Ala Ser Lys Val Lys Arg Val Val Gln Leu Ala Arg
 530 535 540
 Glu Glu Ile Lys Asn Gly Lys Cys Val Val Ile Gly Leu Gln Ser Thr
 545 550 555 560
 Gly Glu Ala Arg Thr Leu Glu Ala Leu Glu Glu Gly Gly Gly Glu Leu
 565 570 575
 Asn Asp Phe Val Ser Thr Ala Lys Gly Val Leu Gln Ser Leu Ile Glu
 580 585 590
 Lys His Phe Pro Ala Pro Asp Arg Lys Lys Leu Tyr Ser Leu Leu Gly
 595 600 605
 Ile Asp Leu Thr Ala Pro Ser Asn Asn Ser Ser Pro Arg Asp Ser Pro
 610 615 620
 Cys Lys Glu Asn Lys Ile Lys Lys Arg Lys Gly Glu Glu Ile Thr Arg
 625 630 635 640
 Glu Ala Lys Lys Ala Arg Lys Val Gly Gly Leu Thr Gly Ser Ser Ser
 645 650 655
 Asp Asp Ser Gly Ser Glu Ser Asp Ala Ser Asp Asn Glu Glu Ser Asp
 660 665 670
 Tyr Glu Ser Ser Lys Asn Met Ser Ser Gly Asp Asp Asp Phe Asn
 675 680 685
 Pro Phe Leu Asp Glu Ser Asn Glu Asp Asp Glu Asn Asp Pro Trp Leu
 690 695 700
 Ile
 705

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<211> 595
<212> PRT
<213> Homo sapien
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<400> 187

Glu 1	Ser	Pro	Arg	His 5	Arg	Gly	Glu	Gly	Gly 10	Gly	Glu	Trp	Gly	Pro	Gly
Val	Pro	Arg	Glu	Arg	Arg	Glu	Ser	Ala	Gly	Glu	Trp	Gly	Ala	Asp	Thr
			20					25					30		
Pro	Lys	Glu	Gly	Gly	Glu	Ser	Ala	Gly	Glu	Trp	Gly	Ala	Glu	Val	Pro
		35					40					45			
Arg	Gly	Arg	Gly	Glu	Gly	Ala	Gly	Glu	Trp	Gly	Pro	Asp	Thr	Pro	Lys
	50					55					60				
Glu	Arg	Gly	Gln	Gly	Val	Arg	Glu	Trp	Gly	Pro	Glu	Ile	Pro	Gln	Glu
65					70					75				80	
His	Gly	Glu	Ala	Thr	Arg	Asp	Trp	Ala	Leu	Glu	Ser	Pro	Arg	Ala	Leu
				85					90					95	
Gly	Glu	Asp	Ala	Arg	Glu	Leu	Gly	Ser	Ser	Pro	His	Asp	Arg	Gly	Ala
			100					105					110		
Ser	Pro	Arg	Asp	Leu	Ser	Gly	Glu	Ser	Pro	Cys	Thr	Gln	Arg	Ser	Gly
		115					120					125			
Leu	Leu	Pro	Glu	Arg	Arg	Gly	Asp	Ser	Pro	Trp	Pro	Pro	Trp	Pro	Ser
	130					135					140				
Pro	Gln	Glu	Arg	Asp	Ala	Gly	Thr	Arg	Asp	Arg	Glu	Glu	Ser	Pro	Arg
145				150						155					160
Asp	Trp	Gly	Gly	Ala	Glu	Ser	Pro	Arg	Gly	Trp	Glu	Ala	Gly	Pro	Arg
				165					170					175	
Glu	Trp	Gly	Pro	Ser	Pro	Ser	Gly	His	Gly	Asp	Gly	Pro	Arg	Arg	Arg
			180					185					190		
Pro	Arg	Lys	Arg	Arg	Gly	Arg	Lys	Gly	Arg	Met	Gly	Arg	Gln	His	Glu
		195					200				205				
Ala	Ala	Ala	Thr	Ala	Ala	Thr	Ala	Ala	Thr	Ala	Thr	Gly	Gly	Thr	Ala
	210					215					220				
Glu	Glu	Ala	Gly	Ala	Ser	Ala	Pro	Glu	Ser	Gln	Ala	Gly	Gly	Gly	Pro
225					230					235					240
Arg	Gly	Arg	Ala	Arg	Gly	Pro	Arg	Gln	Gln	Gly	Arg	Arg	Arg	His	Gly
				245					250					255	
Thr	Gln	Arg	Arg	Arg	Gly	Pro	Pro	Gln	Ala	Arg	Glu	Glu	Gly	Pro	Arg
			260					265					270		
Asp	Ala	Thr	Thr	Ile	Leu	Gly	Leu	Gly	Thr	Pro	Ser	Gly	Glu	Gln	Arg
		275					280					285			
Ala	Asp	Gln	Ser	Gln	Ala	Leu	Pro	Ala	Leu	Ala	Gly	Ala	Ala	Ala	Ala
	290					295					300				
His	Ala	His	Ala	Ile	Pro	Gly	Ala	Gly	Pro	Ala	Ala	Ala	Pro	Val	Gly
305					310					315					320
Gly	Arg	Gly	Arg	Arg	Gly	Gly	Trp	Arg	Gly	Gly	Arg	Arg	Gly	Gly	Ser
				325					330					335	
Ala	Gly	Ala	Gly	Gly	Gly	Gly	Arg	Gly	Gly	Arg	Gly	Arg	Gly	Arg	Gly
			340					345					350		
Gly	Gly	Arg	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Gly	Gly	Gly	Ala	Ala	Gly
		355													

385 390 395 400
 Arg Gly Arg Arg Ala Arg Gly Gln Arg Ala Gly Glu Glu Ala Gln Asp
 405 410 415
 Gly Leu Leu Pro Arg Gly Arg Asp Arg Leu Pro Leu Arg Pro Gly Asp
 420 425 430
 Ala Asn Gln Arg Ala Glu Arg Pro Gly Pro Pro Arg Gly Gly His Gly
 435 440 445
 Pro Val Asn Ala Ser Ser Ala Pro Asp Thr Ser Pro Pro Arg His Pro
 450 455 460
 Arg Arg Trp Val Ser Gln Gln Arg Gln Arg Leu Trp Arg Gln Phe Arg
 465 470 475 480
 Val Gly Gly Gly Phe Pro Pro Pro Pro Pro Ser Arg Pro Pro Ala Val
 485 490 495
 Leu Leu Pro Leu Leu Arg Leu Ala Cys Ala Gly Asp Pro Gly Ala Thr
 500 505 510
 Arg Pro Gly Pro Arg Arg Pro Ala Arg Arg Pro Arg Gly Glu Leu Ile
 515 520 525
 Pro Arg Arg Pro Asp Pro Ala Ala Pro Ser Glu Glu Gly Leu Arg Met
 530 535 540
 Glu Ser Ser Val Asp Asp Gly Ala Thr Ala Thr Thr Ala Asp Ala Ala
 545 550 555 560
 Ser Gly Glu Ala Pro Glu Ala Gly Pro Ser Pro Ser His Ser Pro Thr
 565 570 575
 Met Cys Gln Thr Gly Gly Pro Gly Pro Pro Pro Pro Gln Pro Pro Arg
 580 585 590
 Trp Leu Pro
 595

<210> 188
 <211> 376
 <212> PRT
 <213> Homo sapien

<400> 188
 Glu Met Arg Lys Phe Asp Val Pro Ser Met Glu Ser Thr Leu Asn Gln
 1 5 10 15
 Pro Ala Met Leu Glu Thr Leu Tyr Ser Asp Pro His Tyr Arg Ala His
 20 25 30
 Phe Pro Asn Pro Arg Pro Asp Thr Asn Lys Asp Val Tyr Lys Val Leu
 35 40 45
 Pro Glu Ser Lys Lys Ala Pro Gly Ser Gly Ala Val Phe Glu Arg Asn
 50 55 60
 Gly Pro His Ala Ser Ser Ser Gly Val Leu Pro Leu Gly Leu Gln Pro
 65 70 75 80
 Ala Pro Gly Leu Ser Lys Ser Leu Ser Ser Gln Val Trp Gln Pro Ser
 85 90 95
 Pro Asp Pro Trp His Pro Gly Glu Gln Ser Cys Glu Leu Ser Thr Cys
 100 105 110
 Arg Gln Gln Leu Glu Leu Ile Arg Leu Gln Met Glu Gln Met Gln Leu
 115 120 125
 Gln Asn Gly Ala Met Cys His His Pro Ala Ala Phe Ala Pro Leu Leu
 130 135 140
 Pro Thr Leu Glu Pro Ala Gln Trp Leu Ser Ile Leu Asn Ser Asn Glu
 145 150 155 160

His	Leu	Leu	Lys	Glu	Lys	Glu	Leu	Leu	Ile	Asp	Lys	Gln	Arg	Lys	His
				165					170					175	
Ile	Ser	Gln	Leu	Glu	Gln	Lys	Val	Arg	Glu	Ser	Glu	Leu	Gln	Val	His
			180					185					190		
Ser	Ala	Leu	Leu	Gly	Arg	Pro	Ala	Pro	Phe	Gly	Asp	Val	Cys	Leu	Leu
		195					200					205			
Arg	Leu	Gln	Glu	Leu	Gln	Arg	Glu	Asn	Thr	Phe	Leu	Arg	Ala	Gln	Phe
	210					215					220				
Ala	Gln	Lys	Thr	Glu	Ala	Leu	Ser	Lys	Glu	Lys	Met	Glu	Leu	Glu	Lys
225					230					235					240
Lys	Leu	Ser	Ala	Ser	Glu	Val	Glu	Ile	Gln	Leu	Ile	Arg	Glu	Ser	Leu
			245					250						255	
Lys	Val	Thr	Leu	Gln	Lys	His	Ser	Glu	Glu	Gly	Lys	Lys	Gln	Glu	Glu
			260					265					270		
Arg	Val	Lys	Gly	Arg	Asp	Lys	His	Ile	Asn	Asn	Leu	Lys	Lys	Lys	Cys
		275					280					285			
Gln	Lys	Glu	Ser	Glu	Gln	Asn	Arg	Glu	Lys	Gln	Gln	Arg	Ile	Glu	Thr
	290					295					300				
Leu	Glu	Arg	Tyr	Leu	Ala	Asp	Leu	Pro	Thr	Leu	Glu	Asp	His	Gln	Lys
305					310					315					320
Gln	Thr	Glu	Gln	Leu	Lys	Asp	Ala	Glu	Leu	Lys	Asn	Thr	Glu	Leu	Gln
				325				330						335	
Glu	Arg	Val	Ala	Glu	Leu	Glu	Thr	Leu	Leu	Glu	Asp	Thr	Gln	Ala	Thr
			340					345					350		
Cys	Arg	Glu	Lys	Glu	Val	Gln	Leu	Glu	Ser	Leu	Arg	Gln	Arg	Glu	Ala
		355					360					365			
Asp	Leu	Ser	Ser	Ala	Arg	His	Arg								
	370					375									

<210> 189

<211> 160

<212> PRT

<213> Homo sapien

<400> 189

Met	Leu	Glu	Ala	His	Arg	Arg	Gln	Arg	His	Pro	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Thr	Thr	Ala	Asn	Arg	Thr	Gln	Ser	Leu	Asn	Tyr	Gly	Cys	Ile	Val	Glu
			20				25					30			
Asn	Pro	Gln	Thr	His	Glu	Val	Leu	His	Tyr	Val	Glu	Lys	Pro	Ser	Thr
		35					40					45			
Phe	Ile	Ser	Asp	Ile	Ile	Asn	Cys	Gly	Ile	Tyr	Leu	Phe	Ser	Pro	Glu
	50					55					60				
Ala	Leu	Lys	Pro	Leu	Arg	Asp	Val	Phe	Gln	Arg	Asn	Gln	Gln	Asp	Gly
65					70					75					80
Gln	Leu	Glu	Asp	Ser	Pro	Gly	Leu	Trp	Pro	Gly	Ala	Gly	Thr	Ile	Arg
			85					90						95	
Leu	Glu	Gln	Asp	Val	Phe	Ser	Ala	Leu	Ala	Gly	Gln	Gly	Gln	Ile	Tyr
			100					105					110		
Val	His	Leu	Thr	Asp	Gly	Ile	Trp	Ser	Gln	Ile	Lys	Ser	Ala	Gly	Ser
		115					120					125			
Ala	Leu	Tyr	Ala	Ser	Arg	Leu	Tyr	Leu	Ser	Arg	Tyr	Gln	Asp	Thr	His
	130					135					140				
Pro	Glu	Arg	Leu	Ala	Lys	His	Thr	Pro	Gly	Gly	Pro	Trp	Ile	Arg	Gly

145

150

155

160

<210> 190

<211> 146

<212> PRT

<213> Homo sapien

<400> 190

Met Asp Pro Arg Ala Ser Leu Leu Leu Leu Gly Asn Val Tyr Ile His
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 Pro Thr Ala Lys Val Ala Pro Ser Ala Val Leu Gly Pro Asn Val Ser
 20 25 30
 Ile Gly Lys Gly Val Thr Val Gly Glu Gly Val Arg Leu Arg Glu Ser
 35 40 45
 Ile Val Leu His Gly Ala Thr Leu Gln Glu His Thr Cys Val Leu His
 50 55 60
 Ser Ile Val Gly Trp Gly Ser Thr Val Gly Arg Trp Ala Arg Val Glu
 65 70 75 80
 Gly Thr Pro Ser Asp Pro Asn Pro Asn Asp Pro Arg Ala Arg Met Asp
 85 90 95
 Ser Glu Ser Leu Phe Lys Asp Gly Lys Leu Leu Pro Ala Ile Thr Ile
 100 105 110
 Leu Gly Cys Arg Val Arg Ile Pro Ala Glu Val Leu Ile Leu Asn Ser
 115 120 125
 Ile Val Leu Pro His Lys Glu Leu Ser Arg Ser Phe Thr Asn Gln Ile
 130 135 140
 Ile Leu
 145

<210> 191

<211> 704

<212> PRT

<213> Homo sapien

<400> 191

Glu Gly Gly Cys Ala Ala Gly Arg Gly Arg Glu Leu Glu Pro Glu Leu
 1 5 10 15
 Glu Pro Gly Pro Gly Pro Gly Ser Ala Leu Glu Pro Gly Glu Phe
 20 25 30
 Glu Ile Val Asp Arg Ser Gln Leu Pro Gly Pro Gly Asp Leu Arg Ser
 35 40 45
 Ala Thr Arg Pro Arg Ala Ala Glu Gly Trp Ser Ala Pro Ile Leu Thr
 50 55 60
 Leu Ala Arg Arg Ala Thr Gly Asn Leu Ser Ala Ser Cys Gly Ser Ala
 65 70 75 80
 Leu Arg Ala Ala Ala Gly Leu Gly Gly Gly Asp Ser Gly Asp Gly Thr
 85 90 95
 Ala Arg Ala Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala Asn Leu
 100 105 110
 Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
 115 120 125
 Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
 130 135 140
 Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys

145					150					155				160	
Ser	Phe	Ile	Gly	Gln	Asn	Lys	Ser	Phe	Phe	Gly	Pro	Leu	Glu	Leu	Val
				165					170					175	
Glu	Lys	Leu	Cys	Pro	Glu	Ala	Ser	Asp	Ile	Ala	Thr	Ser	Val	Arg	Asn
			180					185					190		
Leu	Pro	Glu	Leu	Lys	Thr	Ala	Val	Gly	Arg	Gly	Arg	Ala	Trp	Leu	Tyr
		195					200					205			
Leu	Ala	Leu	Met	Gln	Lys	Lys	Leu	Ala	Asp	Tyr	Leu	Lys	Val	Leu	Ile
	210					215					220				
Asp	Asn	Lys	His	Leu	Leu	Ser	Glu	Phe	Tyr	Glu	Pro	Glu	Ala	Leu	Met
225				230						235				240	
Met	Glu	Glu	Glu	Gly	Met	Val	Ile	Val	Gly	Leu	Leu	Val	Gly	Leu	Asn
			245						250				255		
Val	Leu	Asp	Ala	Asn	Leu	Cys	Leu	Lys	Gly	Glu	Asp	Leu	Asp	Ser	Gln
		260						265				270			
Val	Gly	Val	Ile	Asp	Phe	Ser	Leu	Tyr	Leu	Lys	Asp	Val	Gln	Asp	Leu
	275						280					285			
Asp	Gly	Gly	Lys	Glu	His	Glu	Arg	Ile	Thr	Asp	Val	Leu	Asp	Gln	Lys
	290					295					300				
Asn	Tyr	Val	Glu	Glu	Leu	Asn	Arg	His	Leu	Ser	Cys	Thr	Val	Gly	Asp
305					310					315				320	
Leu	Gln	Thr	Lys	Ile	Asp	Gly	Leu	Glu	Lys	Thr	Asn	Ser	Lys	Leu	Gln
			325						330					335	
Glu	Glu	Leu	Ser	Ala	Ala	Thr	Asp	Arg	Ile	Cys	Ser	Leu	Gln	Glu	Glu
		340						345				350			
Gln	Gln	Gln	Leu	Arg	Glu	Gln	Asn	Glu	Leu	Ile	Arg	Glu	Arg	Ser	Glu
	355					360					365				
Lys	Ser	Val	Glu	Ile	Thr	Lys	Gln	Asp	Thr	Lys	Val	Glu	Leu	Glu	Thr
	370					375					380				
Tyr	Lys	Gln	Thr	Arg	Gln	Gly	Leu	Asp	Glu	Met	Tyr	Ser	Asp	Val	Trp
385				390					395					400	
Lys	Gln	Leu	Lys	Glu	Glu	Lys	Lys	Val	Arg	Leu	Glu	Leu	Glu	Lys	Glu
			405					410					415		
Leu	Glu	Leu	Gln	Ile	Gly	Met	Lys	Thr	Glu	Met	Glu	Ile	Ala	Met	Lys
		420						425				430			
Leu	Leu	Glu	Lys	Asp	Thr	His	Glu	Lys	Gln	Asp	Thr	Leu	Val	Ala	Leu
	435						440				445				
Arg	Gln	Gln	Leu	Glu	Glu	Val	Lys	Ala	Ile	Asn	Leu	Gln	Met	Phe	His
	450					455				460					
Lys	Ala	Gln	Asn	Ala	Glu	Ser	Ser	Leu	Gln	Gln	Lys	Asn	Glu	Ala	Ile
465				470					475					480	
Thr	Ser	Phe	Glu	Gly	Lys	Thr	Asn	Gln	Val	Met	Ser	Ser	Met	Lys	Gln
			485					490					495		
Met	Glu	Glu	Arg	Leu	Gln	His	Ser	Glu	Arg	Ala	Arg	Gln	Gly	Ala	Glu
		500						505				510			
Glu	Arg	Ser	His	Lys	Leu	Gln	Gln	Glu	Leu	Gly	Gly	Arg	Ile	Gly	Ala
	515					520						525			
Leu	Gln	Leu	Gln	Leu	Ser	Gln	Leu	His	Glu	Gln	Cys	Ser	Ser	Leu	Glu
	530					535					540				
Lys	Glu	Leu	Lys	Ser	Glu	Lys	Glu	Gln	Arg	Gln	Ala	Leu	Gln	Arg	Glu
545				550					555					560	
Leu	Gln	His	Glu	Lys	Asp	Thr	Ser	Ser	Leu	Leu	Arg	Met	Glu	Leu	Gln
			565					570				575			
Gln	Val	Glu	Gly	Leu	Lys	Lys	Glu	Leu	Arg	Glu	Leu	Gln	Asp	Glu	Lys

Glu	Glu	Cys	Lys	Glu	Lys	Arg	Gly	Ile	Ile	Pro	Leu	Asp	Ala	His	Cys
			260					265					270		
Cys	Val	Glu	Val	Leu	Pro	Asp	Arg	Asp	Gly	Lys	Arg	Cys	Met	Phe	Cys
		275					280					285			
Val	Lys	Thr	Ala	Thr	Arg	Thr	Tyr	Glu	Met	Ser	Ala	Ser	Asp	Thr	Arg
	290					295					300				
Gln	Arg	Gln	Glu	Trp	Thr	Ala	Ala	Ile	Gln	Met	Ala	Ile	Arg	Leu	Gln
305					310					315					320
Ala	Glu	Gly	Lys	Thr	Ser	Leu	His	Lys	Asp	Leu					
				325					330						

<210> 193

<211> 475

<212> PRT

<213> Homo sapien

<400> 193

Lys	Asn	Ser	Pro	Leu	Leu	Ser	Val	Ser	Ser	Gln	Thr	Ile	Thr	Lys	Glu
1				5				10						15	
Asn	Asn	Arg	Asn	Val	His	Leu	Glu	His	Ser	Glu	Gln	Asn	Pro	Gly	Ser
			20					25					30		
Ser	Ala	Gly	Asp	Thr	Ser	Ala	Ala	His	Gln	Val	Val	Leu	Gly	Glu	Asn
		35					40					45			
Leu	Ile	Ala	Thr	Ala	Leu	Cys	Leu	Ser	Gly	Ser	Gly	Ser	Gln	Ser	Asp
	50					55					60				
Leu	Lys	Asp	Val	Ala	Ser	Thr	Ala	Gly	Glu	Glu	Gly	Asp	Thr	Ser	Leu
65					70				75						80
Arg	Glu	Ser	Leu	His	Pro	Val	Thr	Arg	Ser	Leu	Lys	Ala	Gly	Cys	His
				85				90						95	
Thr	Lys	Gln	Leu	Ala	Ser	Arg	Asn	Cys	Ser	Glu	Glu	Lys	Ser	Pro	Gln
			100				105						110		
Thr	Ser	Ile	Leu	Lys	Glu	Gly	Asn	Arg	Asp	Thr	Ser	Leu	Asp	Phe	Arg
		115					120					125			
Pro	Val	Val	Ser	Pro	Ala	Asn	Gly	Val	Glu	Gly	Val	Arg	Val	Asp	Gln
	130					135					140				
Asp	Asp	Asp	Gln	Asp	Ser	Ser	Ser	Leu	Lys	Leu	Ser	Gln	Asn	Ile	Ala
145				150						155					160
Val	Gln	Thr	Asp	Phe	Lys	Thr	Ala	Asp	Ser	Glu	Val	Asn	Thr	Asp	Gln
			165					170						175	
Asp	Ile	Glu	Lys	Asn	Leu	Asp	Lys	Met	Met	Thr	Glu	Arg	Thr	Leu	Leu
			180				185						190		
Lys	Glu	Arg	Tyr	Gln	Glu	Val	Leu	Asp	Lys	Gln	Arg	Gln	Val	Glu	Asn
		195					200					205			
Gln	Leu	Gln	Val	Gln	Leu	Lys	Gln	Leu	Gln	Gln	Arg	Arg	Glu	Glu	Glu
	210					215					220				
Met	Lys	Asn	His	Gln	Glu	Ile	Leu	Lys	Ala	Ile	Gln	Asp	Val	Thr	Ile
225				230						235					240
Lys	Arg	Glu	Glu	Thr	Lys	Lys	Lys	Ile	Glu	Lys	Glu	Lys	Lys	Glu	Phe
				245					250					255	
Leu	Gln	Lys	Glu	Gln	Asp	Leu	Lys	Ala	Glu	Ile	Glu	Lys	Leu	Cys	Glu
			260					265					270		
Lys	Gly	Arg	Arg	Glu	Val	Trp	Glu	Met	Glu	Leu	Asp	Arg	Leu	Lys	Asn
		275					280					285			
Gln	Asp	Gly	Glu	Ile	Asn	Arg	Asn	Ile	Met	Glu	Glu	Thr	Glu	Arg	Ala

290	295	300
Trp Lys Ala Glu Ile Leu Ser Leu Glu Ser Arg Lys Glu Leu Leu Val		
305	310	315
Leu Lys Leu Glu Glu Ala Glu Lys Glu Ala Glu Leu His Leu Thr Tyr		320
	325	330
Leu Lys Ser Thr Pro Pro Thr Leu Glu Thr Val Arg Ser Lys Gln Glu		335
	340	345
Trp Glu Thr Arg Leu Asn Gly Val Arg Ile Met Lys Lys Asn Val Arg		350
	355	360
Asp Gln Phe Asn Ser His Ile Gln Leu Val Arg Asn Gly Ala Lys Leu		365
	370	375
Ser Ser Leu Pro Gln Ile Pro Thr Pro Thr Leu Pro Pro Pro Pro Ser		380
385	390	395
Glu Thr Asp Phe Met Leu Gln Val Phe Gln Pro Ser Pro Ser Leu Ala		400
	405	410
Pro Arg Met Pro Phe Ser Ile Gly Gln Val Thr Met Pro Met Val Met		415
	420	425
Pro Ser Ala Asp Pro Arg Ser Leu Ser Phe Pro Ile Leu Asn Pro Ala		430
	435	440
Leu Ser Gln Pro Ser Gln Pro Ser Ser Pro Leu Pro Gly Ser His Gly		445
	450	455
Arg Asn Ser Pro Gly Leu Gly Ser Leu Val Ser		460
465	470	475

<210> 194

<211> 241

<212> PRT

<213> Homo sapien

<400> 194

Met Ser Gly Glu Ser Ala Arg Ser Leu Gly Lys Gly Ser Ala Pro Pro		
1	5	10
Gly Pro Val Pro Glu Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys		15
	20	25
Pro Phe Ala Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg		30
	35	40
His Glu Val Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe		45
	50	55
Lys Lys Asn Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly		60
65	70	75
Gln Leu Ile Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala		80
	85	90
Tyr Pro Gly Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys		95
	100	105
Gln Lys Met Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly		110
	115	120
Ser Phe Ile Arg Ser Gln Asn Lys Glu Asp Tyr Ala Gly Leu Lys Glu		125
	130	135
Glu Phe Arg Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys		140
145	150	155
Lys Thr Thr Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu		160
	165	170
Ile Trp Pro Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys		175
	180	185
		190

[illegible]

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<210> 195
<211> 138
<212> PRT
<213> Homo sapien
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	<400>	195														
Gln	Thr	Lys	Ile	Leu	Glu	Glu	Asp	Leu	Glu	Gln	Ile	Lys	Leu	Ser	Leu	
1				5					10					15		
Arg	Glu	Arg	Gly	Arg	Glu	Leu	Thr	Thr	Gln	Arg	Gln	Leu	Met	Gln	Glu	
			20					25					30			
Arg	Ala	Glu	Glu	Gly	Lys	Gly	Pro	Ser	Lys	Ala	Gln	Arg	Gly	Ser	Leu	
		35					40					45				
Glu	His	Met	Lys	Leu	Ile	Leu	Arg	Asp	Lys	Glu	Lys	Glu	Val	Glu	Cys	
	50					55					60					
Gln	Gln	Glu	His	Ile	His	Glu	Leu	Gln	Glu	Leu	Lys	Asp	Gln	Leu	Glu	
65					70					75					80	
Gln	Gln	Leu	Gln	Gly	Leu	His	Arg	Lys	Val	Gly	Glu	Thr	Ser	Leu	Leu	
				85					90					95		
Leu	Ser	Gln	Arg	Glu	Gln	Glu	Ile	Val	Val	Leu	Gln	Gln	Gln	Leu	Gln	
			100					105					110			
Glu	Ala	Arg	Glu	Gln	Gly	Glu	Leu	Lys	Glu	Gln	Ser	Leu	Gln	Ser	Gln	
		115					120					125				
Leu	Asp	Glu	Ala	Gln	Arg	Ala	Leu	Ala	Gln							
	130					135										

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<210> 196
<211> 102
<212> PRT
<213> Homo sapien
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[illegible]

<210> 197
 <211> 138
 <212> PRT
 <213> Homo sapien

<400> 197
 Glu Ala Asn Glu Val Thr Asp Ser Ala Tyr Met Gly Ser Glu Ser Thr
 1 5 10 15
 Tyr Ser Glu Cys Glu Thr Phe Thr Asp Glu Asp Thr Ser Thr Leu Val
 20 25 30
 His Pro Glu Leu Gln Pro Glu Gly Asp Ala Asp Ser Ala Gly Gly Ser
 35 40 45
 Ala Val Pro Ser Glu Cys Leu Asp Ala Met Glu Glu Pro Asp His Gly
 50 55 60
 Ala Leu Leu Leu Leu Pro Gly Arg Pro His Pro His Gly Gln Ser Val
 65 70 75 80
 Ile Thr Val Ile Gly Gly Glu Glu His Phe Glu Asp Tyr Gly Glu Gly
 85 90 95
 Ser Glu Ala Glu Leu Ser Pro Glu Thr Leu Cys Asn Gly Gln Leu Gly
 100 105 110
 Cys Ser Asp Pro Ala Phe Leu Thr Pro Ser Pro Thr Lys Arg Leu Ser
 115 120 125
 Ser Lys Lys Val Ala Arg Tyr Leu His Gln
 130 135

<210> 198
 <211> 100
 <212> PRT
 <213> Homo sapien

<400> 198
 Met Gly Asp Val Lys Asn Phe Leu Tyr Ala Trp Cys Gly Lys Arg Lys
 1 5 10 15
 Met Thr Pro Ser Tyr Glu Ile Arg Ala Val Gly Asn Lys Asn Arg Gln
 20 25 30
 Lys Phe Met Cys Glu Val Gln Val Glu Gly Tyr Asn Tyr Thr Gly Met
 35 40 45
 Gly Asn Ser Thr Asn Lys Lys Asp Ala Gln Ser Asn Ala Ala Arg Asp
 50 55 60
 Phe Val Asn Tyr Leu Val Arg Ile Asn Glu Ile Lys Ser Glu Glu Val
 65 70 75 80
 Pro Ala Phe Gly Val Ala Ser Pro Pro Pro Leu Thr Asp Thr Pro Asp
 85 90 95
 Thr Thr Ala Asn
 100

<210> 199
 <211> 127
 <212> PRT
 <213> Homo sapien

<400> 199
 Met Val Lys Glu Thr Thr Tyr Tyr Asp Val Leu Gly Val Lys Pro Asn

1		5		10		15									
Ala	Thr	Gln	Glu	Glu	Leu	Lys	Lys	Ala	Tyr	Arg	Lys	Leu	Ala	Leu	Lys
		20						25					30		
Tyr	His	Pro	Asp	Lys	Asn	Pro	Asn	Glu	Gly	Glu	Lys	Phe	Lys	Gln	Ile
		35					40					45			
Ser	Gln	Ala	Tyr	Glu	Val	Leu	Ser	Asp	Ala	Lys	Lys	Arg	Glu	Leu	Tyr
		50				55					60				
Asp	Lys	Gly	Gly	Glu	Gln	Ala	Ile	Lys	Glu	Gly	Gly	Ala	Gly	Gly	Gly
65					70					75					80
Phe	Gly	Ser	Pro	Met	Asp	Ile	Phe	Asp	Met	Phe	Phe	Gly	Gly	Gly	Gly
				85				90						95	
Arg	Met	Gln	Arg	Glu	Arg	Arg	Gly	Lys	Asn	Val	Val	His	Gln	Leu	Ser
		100						105					110		
Val	Thr	Leu	Glu	Asp	Leu	Tyr	Asn	Gly	Ala	Thr	Arg	Lys	Leu	Ala	
		115					120					125			

<210> 200

<211> 90

<212> PRT

<213> Homo sapien

<400> 200

Met	Ala	Cys	Pro	Leu	Asp	Gln	Ala	Ile	Gly	Leu	Leu	Val	Ala	Ile	Phe
1				5					10					15	
His	Lys	Tyr	Ser	Gly	Arg	Glu	Gly	Asp	Lys	His	Thr	Leu	Ser	Lys	Lys
			20					25					30		
Glu	Leu	Lys	Glu	Leu	Ile	Gln	Lys	Glu	Leu	Thr	Ile	Gly	Ser	Lys	Leu
		35					40					45			
Gln	Asp	Ala	Glu	Ile	Ala	Arg	Leu	Met	Glu	Asp	Leu	Asp	Arg	Asn	Lys
		50				55					60				
Asp	Gln	Glu	Val	Asn	Phe	Gln	Glu	Tyr	Val	Thr	Phe	Leu	Gly	Ala	Leu
65				70					75						80
Ala	Leu	Ile	Tyr	Asn	Glu	Ala	Leu	Lys	Gly						
				85					90						

<210> 201

<211> 120

<212> PRT

<213> Homo sapien

<400> 201

Met	Glu	Thr	Pro	Ser	Gln	Arg	Arg	Ala	Thr	Arg	Ser	Gly	Ala	Gln	Ala
1				5					10					15	
Ser	Ser	Thr	Pro	Leu	Ser	Pro	Thr	Arg	Ile	Thr	Arg	Leu	Gln	Glu	Lys
			20					25					30		
Glu	Asp	Leu	Gln	Glu	Leu	Asn	Asp	Arg	Leu	Ala	Val	Tyr	Ile	Asp	Arg
		35					40					45			
Val	Arg	Ser	Leu	Glu	Thr	Glu	Asn	Ala	Gly	Leu	Arg	Leu	Arg	Ile	Thr
		50				55					60				
Glu	Ser	Glu	Glu	Val	Val	Ser	Arg	Glu	Val	Ser	Gly	Ile	Lys	Ala	Ala
65				70					75						80
Tyr	Glu	Ala	Glu	Leu	Gly	Asp	Ala	Arg	Lys	Thr	Leu	Asp	Ser	Val	Ala
				85				90					95		
Lys	Glu	Arg	Ala	Arg	Leu	Gln	Leu	Glu	Leu	Ser	Lys	Val	Arg	Glu	Glu

		100		105		110
Phe	Lys	Glu	Leu	Lys	Ala	Arg
		115		120		

<210> 202
 <211> 177
 <212> PRT
 <213> Homo sapien

<400> 202

Met	Ala	Ala	Gly	Val	Glu	Ala	Ala	Ala	Glu	Val	Ala	Ala	Thr	Glu	Ile
1				5					10					15	
Lys	Met	Glu	Glu	Glu	Ser	Gly	Ala	Pro	Gly	Val	Pro	Ser	Gly	Asn	Gly
			20					25					30		
Ala	Pro	Gly	Pro	Lys	Gly	Glu	Gly	Glu	Arg	Pro	Ala	Gln	Asn	Glu	Lys
		35				40						45			
Arg	Lys	Glu	Lys	Asn	Ile	Lys	Arg	Gly	Gly	Asn	Arg	Phe	Glu	Pro	Tyr
	50					55				60					
Ala	Asn	Pro	Thr	Lys	Arg	Tyr	Arg	Ala	Phe	Ile	Thr	Asn	Ile	Pro	Phe
65					70				75					80	
Asp	Val	Lys	Trp	Gln	Ser	Leu	Lys	Asp	Leu	Val	Lys	Glu	Lys	Val	Gly
				85					90					95	
Glu	Val	Thr	Tyr	Val	Glu	Leu	Leu	Met	Asp	Ala	Glu	Gly	Lys	Ser	Arg
			100					105					110		
Gly	Cys	Ala	Val	Val	Glu	Phe	Lys	Met	Glu	Glu	Ser	Met	Lys	Lys	Ala
		115					120					125			
Ala	Glu	Val	Leu	Asn	Lys	His	Ser	Leu	Ser	Gly	Arg	Pro	Leu	Lys	Val
		130				135					140				
Lys	Glu	Asp	Pro	Asp	Gly	Glu	His	Ala	Arg	Arg	Ala	Met	Gln	Lys	Ala
145					150					155					160
Gly	Arg	Leu	Gly	Ser	Thr	Val	Phe	Val	Ala	Asn	Leu	Asp	Tyr	Lys	Val
				165					170					175	

Gly

<210> 203
 <211> 164
 <212> PRT
 <213> Homo sapien

<400> 203

Met	Arg	Leu	Ala	Val	Gly	Ala	Leu	Leu	Val	Cys	Ala	Val	Leu	Gly	Leu
1				5					10					15	
Cys	Leu	Ala	Val	Pro	Asp	Lys	Thr	Val	Arg	Trp	Cys	Ala	Val	Ser	Glu
			20					25					30		
His	Glu	Ala	Thr	Lys	Cys	Gln	Ser	Phe	Arg	Asp	His	Met	Lys	Ser	Val
		35				40					45				
Ile	Pro	Ser	Asp	Gly	Pro	Ser	Val	Ala	Cys	Val	Lys	Lys	Ala	Ser	Tyr
	50					55				60					
Leu	Asp	Cys	Ile	Arg	Ala	Ile	Ala	Ala	Asn	Glu	Ala	Asp	Ala	Val	Thr
65					70					75				80	
Leu	Asp	Ala	Gly	Leu	Val	Tyr	Asp	Ala	Tyr	Leu	Ala	Pro	Asn	Asn	Leu
				85					90					95	
Lys	Pro	Val	Val	Ala	Glu	Phe	Tyr	Gly	Ser	Lys	Glu	Asp	Pro	Gln	Thr

			100					105				110			
Phe	Tyr	Tyr	Ala	Val	Ala	Val	Val	Lys	Lys	Asp	Ser	Gly	Phe	Gln	Met
		115					120					125			
Asn	Gln	Leu	Arg	Gly	Lys	Lys	Ser	Cys	His	Thr	Gly	Leu	Gly	Arg	Ser
	130					135					140				
Ala	Gly	Trp	Asn	Ile	Pro	Ile	Gly	Leu	Leu	Tyr	Cys	Asp	Leu	Pro	Glu
145					150					155					160
Pro	Arg	Lys	Pro												

<210> 204
 <211> 241
 <212> PRT
 <213> Homo sapien

Met	Ser	Gly	Glu	Ser	Ala	Arg	Ser	Leu	Gly	Lys	Gly	Ser	Ala	Pro	Pro
1				5					10					15	
Gly	Pro	Val	Pro	Glu	Gly	Ser	Ile	Arg	Ile	Tyr	Ser	Met	Arg	Phe	Cys
			20					25					30		
Pro	Phe	Ala	Glu	Arg	Thr	Arg	Leu	Val	Leu	Lys	Ala	Lys	Gly	Ile	Arg
		35					40					45			
His	Glu	Val	Ile	Asn	Ile	Asn	Leu	Lys	Asn	Lys	Pro	Glu	Trp	Phe	Phe
	50					55					60				
Lys	Lys	Asn	Pro	Phe	Gly	Leu	Val	Pro	Val	Leu	Glu	Asn	Ser	Gln	Gly
65					70					75					80
Gln	Leu	Ile	Tyr	Glu	Ser	Ala	Ile	Thr	Cys	Glu	Tyr	Leu	Asp	Glu	Ala
				85					90					95	
Tyr	Pro	Gly	Lys	Lys	Leu	Leu	Pro	Asp	Asp	Pro	Tyr	Glu	Lys	Ala	Cys
			100					105						110	
Gln	Lys	Met	Ile	Leu	Glu	Leu	Phe	Ser	Lys	Val	Pro	Ser	Leu	Val	Gly
		115					120						125		
Ser	Phe	Ile	Arg	Ser	Gln	Asn	Lys	Glu	Asp	Tyr	Asp	Gly	Leu	Lys	Glu
	130					135					140				
Glu	Phe	Arg	Lys	Glu	Phe	Thr	Lys	Leu	Glu	Glu	Val	Leu	Thr	Asn	Lys
145					150					155					160
Lys	Thr	Thr	Phe	Phe	Gly	Gly	Asn	Ser	Ile	Ser	Met	Ile	Asp	Tyr	Leu
				165					170					175	
Ile	Trp	Pro	Trp	Phe	Glu	Arg	Leu	Glu	Ala	Met	Lys	Leu	Asn	Glu	Cys
		180						185					190		
Val	Asp	His	Thr	Pro	Lys	Leu	Lys	Leu	Trp	Met	Ala	Ala	Met	Lys	Glu
	195						200					205			
Asp	Pro	Thr	Val	Ser	Ala	Leu	Leu	Thr	Ser	Glu	Lys	Asp	Trp	Gln	Gly
	210					215					220				
Phe	Leu	Glu	Leu	Tyr	Leu	Gln	Asn	Ser	Pro	Glu	Ala	Cys	Asp	Tyr	Gly
225					230					235					240
Leu															

<210> 205
 <211> 160
 <212> PRT
 <213> Homo sapien

Met 1	Gln	Ile	Phe	Val 5	Lys	Thr	Leu	Thr	Gly 10	Lys	Thr	Ile	Thr	Leu 15	Glu
Val	Glu	Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	Lys	Ala	Lys	Ile	Gln	Asp
			20					25					30		
Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys
		35					40					45			
Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Gln	Lys	Glu
	50					55					60				
Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln	Ile	Phe
65					70					75					80
Val	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	Pro	Ser
				85					90					95	
Asp	Thr	Ile	Glu	Asn	Val	Lys	Ala	Lys	Ile	Gln	Asp	Lys	Glu	Gly	Ile
			100					105					110		
Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu	Glu	Asp
		115						120				125			
Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Gln	Lys	Glu	Ser	Thr	Leu	His
	130					135					140				
Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln	Ile	Phe	Val	Lys	Thr	Leu
145					150					155					160

<211> 197

<212> PRT

<213> Hom.

<213> Homo sapien

[illegible]

<210> 207
 <211> 175
 <212> PRT
 <213> Homo sapien

<400> 207
 Ile Ile Arg Gln Gln Gly Leu Ala Ser Tyr Asp Tyr Val Arg Arg Arg
 1 5 10 15
 Leu Thr Ala Glu Asp Leu Phe Glu Ala Arg Ile Ile Ser Leu Glu Thr
 20 25 30
 Tyr Asn Leu Leu Arg Glu Gly Thr Arg Ser Leu Arg Glu Ala Leu Glu
 35 40 45
 Ala Glu Ser Ala Trp Cys Tyr Leu Tyr Gly Thr Gly Ser Val Ala Gly
 50 55 60
 Val Tyr Leu Pro Gly Ser Arg Gln Thr Leu Ser Ile Tyr Gln Ala Leu
 65 70 75 80
 Lys Lys Gly Leu Leu Ser Ala Glu Val Ala Arg Leu Leu Leu Glu Ala
 85 90 95
 Gln Ala Ala Thr Gly Phe Leu Leu Asp Pro Val Lys Gly Glu Arg Leu
 100 105 110
 Thr Val Asp Glu Ala Val Arg Lys Gly Leu Val Gly Pro Glu Leu His
 115 120 125
 Asp Arg Leu Leu Ser Ala Glu Arg Ala Val Thr Gly Tyr Arg Asp Pro
 130 135 140
 Tyr Thr Glu Gln Thr Ile Ser Leu Phe Gln Ala Met Lys Lys Glu Leu
 145 150 155 160
 Ile Pro Thr Glu Glu Ala Leu Arg Leu Trp Met Pro Ser Trp Pro
 165 170 175

<210> 208
 <211> 177
 <212> PRT
 <213> Homo sapien

<400> 208
 Met Ala Ala Gly Val Glu Ala Ala Ala Glu Val Ala Ala Thr Glu Ile
 1 5 10 15
 Lys Met Glu Glu Glu Ser Gly Ala Pro Gly Val Pro Ser Gly Asn Gly
 20 25 30
 Ala Pro Gly Pro Lys Gly Glu Gly Glu Arg Pro Ala Gln Asn Glu Lys
 35 40 45
 Arg Lys Glu Lys Asn Ile Lys Arg Gly Gly Asn Arg Phe Glu Pro Tyr
 50 55 60
 Ala Asn Pro Thr Lys Arg Tyr Arg Ala Phe Ile Thr Asn Ile Pro Phe
 65 70 75 80
 Asp Val Lys Trp Gln Ser Leu Lys Asp Leu Val Lys Glu Lys Val Gly
 85 90 95
 Glu Val Thr Tyr Val Glu Leu Leu Met Asp Ala Glu Gly Lys Ser Arg
 100 105 110
 Gly Cys Ala Val Val Glu Phe Lys Met Glu Glu Ser Met Lys Lys Ala
 115 120 125
 Ala Glu Val Leu Asn Lys His Ser Leu Ser Gly Arg Pro Leu Lys Val
 130 135 140

Lys Glu Asp Pro Asp Gly Glu His Ala Arg Arg Ala Met Gln Lys Val
 145 150 155 160
 Met Ala Thr Thr Gly Gly Met Gly Met Gly Pro Gly Gly Pro Gly Met
 165 170 175
 Ile

<210> 209
 <211> 196
 <212> PRT
 <213> Homo sapien

<400> 209
 Asp Leu Gln Asp Met Phe Ile Val His Thr Ile Glu Glu Ile Glu Gly
 1 5 10 15
 Leu Ile Ser Ala His Asp Gln Phe Lys Ser Thr Leu Pro Asp Ala Asp
 20 25 30
 Arg Glu Arg Glu Ala Ile Leu Ala Ile His Lys Glu Ala Gln Arg Ile
 35 40 45
 Ala Glu Ser Asn His Ile Lys Leu Ser Gly Ser Asn Pro Tyr Thr Thr
 50 55 60
 Val Thr Pro Gln Ile Ile Asn Ser Lys Trp Glu Lys Val Gln Gln Leu
 65 70 75 80
 Val Pro Lys Arg Asp His Ala Leu Leu Glu Glu Gln Ser Lys Gln Gln
 85 90 95
 Ser Asn Glu His Leu Arg Arg Gln Phe Ala Ser Gln Ala Asn Val Val
 100 105 110
 Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile Gly Arg Ile Ser Ile
 115 120 125
 Glu Met Asn Gly Thr Leu Glu Asp Gln Leu Ser His Leu Lys Gln Tyr
 130 135 140
 Glu Arg Ser Ile Val Asp Tyr Lys Pro Asn Leu Asp Leu Leu Glu Gln
 145 150 155 160
 Gln His Gln Leu Ile Gln Glu Ala Leu Ile Phe Asp Asn Lys His Thr
 165 170 175
 Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp Glu Gln Leu Leu Thr
 180 185 190
 Thr Ile Ala Arg
 195

<210> 210
 <211> 156
 <212> PRT
 <213> Homo sapien

<400> 210
 Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
 1 5 10 15
 Val Leu Leu Leu Ala His Asn Leu Pro Gln Asn Arg Ile Gly Tyr Ser
 20 25 30
 Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Ser Leu Ile Val Gly Tyr
 35 40 45
 Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
 50 55 60

Glu Thr Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Val Thr Gln
 65 70 75 80
 Asn Asp Thr Gly Phe Tyr Thr Leu Gln Val Ile Lys Ser Asp Leu Val
 85 90 95
 Asn Glu Glu Ala Thr Gly Gln Phe His Val Tyr Pro Glu Leu Pro Lys
 100 105 110
 Pro Ser Ile Ser Ser Asn Asn Ser Asn Pro Val Glu Asp Lys Asp Ala
 115 120 125
 Val Ala Phe Thr Cys Glu Pro Glu Val Gln Asn Thr Thr Tyr Leu Trp
 130 135 140
 Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Lys
 145 150 155

<210> 211
 <211> 92
 <212> PRT
 <213> Homo sapien

<400> 211
 Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
 1 5 10 15
 Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
 20 25 30
 Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
 35 40 45
 Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 50 55 60
 Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
 65 70 75 80
 Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly
 85 90

<210> 212
 <211> 142
 <212> PRT
 <213> Homo sapien

<400> 212
 Glu Lys Gln Lys Asn Lys Glu Phe Ser Gln Thr Leu Glu Asn Glu Lys
 1 5 10 15
 Asn Thr Leu Leu Ser Gln Ile Ser Thr Lys Asp Gly Glu Leu Lys Met
 20 25 30
 Leu Gln Glu Glu Val Thr Lys Met Asn Leu Leu Asn Gln Gln Ile Gln
 35 40 45
 Glu Glu Leu Ser Arg Val Thr Lys Leu Lys Glu Thr Ala Glu Glu Glu
 50 55 60
 Lys Asp Asp Leu Glu Glu Arg Leu Met Asn Gln Leu Ala Glu Leu Asn
 65 70 75 80
 Gly Ser Ile Gly Asn Tyr Cys Gln Asp Val Thr Asp Ala Gln Ile Lys
 85 90 95
 Asn Glu Leu Leu Glu Ser Glu Met Lys Asn Leu Lys Lys Cys Val Ser
 100 105 110
 Glu Leu Glu Glu Glu Lys Gln Gln Leu Val Lys Glu Lys Thr Lys Val
 115 120 125

Glu Ser Glu Ile Arg Lys Glu Tyr Leu Glu Lys Ile Gln Gly
 130 135 140

<210> 213
 <211> 142
 <212> PRT
 <213> Homo sapien

<400> 213
 Gly Gly Tyr Gly Gly Gly Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly
 1 5 10 15
 Leu Leu Ala Gly Asn Glu Lys Leu Thr Met Gln Asn Leu Asn Asp Arg
 20 25 30
 Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Ala Ala Asn Gly
 35 40 45
 Glu Leu Glu Val Lys Ile Arg Asp Trp Tyr Gln Lys Gln Gly Pro Gly
 50 55 60
 Pro Ser Arg Asp Tyr Ser His Tyr Tyr Thr Thr Ile Gln Asp Leu Arg
 65 70 75 80
 Asp Lys Ile Leu Gly Ala Thr Ile Glu Asn Ser Arg Ile Val Leu Gln
 85 90 95
 Ile Asp Asn Ala Arg Leu Ala Ala Asp Phe Arg Thr Lys Phe Glu
 100 105 110
 Thr Glu Gln Ala Leu Arg Met Ser Val Glu Ala Asp Ile Asn Gly Leu
 115 120 125
 Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr Asp Leu
 130 135 140

<210> 214
 <211> 129
 <212> PRT
 <213> Homo sapien

<400> 214
 Val Met Arg Val Asp Phe Asn Val Pro Met Lys Asn Asn Gln Ile Thr
 1 5 10 15
 Asn Asn Gln Arg Ile Lys Ala Ala Val Pro Ser Ile Lys Phe Cys Leu
 20 25 30
 Asp Asn Gly Ala Lys Ser Val Val Leu Met Ser His Leu Gly Arg Pro
 35 40 45
 Asp Gly Val Pro Met Pro Asp Lys Tyr Ser Leu Glu Pro Val Ala Val
 50 55 60
 Glu Leu Arg Ser Leu Leu Gly Lys Asp Val Leu Phe Leu Lys Asp Cys
 65 70 75 80
 Val Gly Pro Glu Val Glu Lys Ala Cys Ala Asn Pro Ala Ala Gly Ser
 85 90 95
 Val Ile Leu Leu Glu Asn Leu Arg Phe His Val Glu Glu Glu Gly Lys
 100 105 110
 Gly Lys Asp Ala Ser Gly Asn Lys Val Lys Ala Glu Pro Ala Lys Ile
 115 120 125
 Glu

<210> 215

<211> 148
 <212> PRT
 <213> Homo sapien

<400> 215
 Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu
 1 5 10 15
 Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val
 20 25 30
 Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu
 35 40 45
 Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met
 50 55 60
 Asp Leu Gln His Gly Ser Leu Phe Leu Gln Thr Pro Lys Ile Val Ala
 65 70 75 80
 Asp Lys Asp Tyr Ser Val Thr Ala Asn Ser Lys Ile Val Val Val Thr
 85 90 95
 Ala Gly Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln
 100 105 110
 Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr
 115 120 125
 Ser Pro Asp Cys Ile Ile Ile Val Val Ser Asn Pro Val Asp Ile Leu
 130 135 140
 Thr Tyr Val Thr
 145

<210> 216
 <211> 527
 <212> PRT
 <213> Homo sapien

<400> 216
 Gln Arg Ala Pro Gly Ile Glu Glu Lys Ala Ala Glu Asn Gly Ala Leu
 1 5 10 15
 Gly Ser Pro Glu Arg Glu Glu Lys Val Leu Glu Asn Gly Glu Leu Thr
 20 25 30
 Pro Pro Arg Arg Glu Glu Lys Ala Leu Glu Asn Gly Glu Leu Arg Ser
 35 40 45
 Pro Glu Ala Gly Glu Lys Val Leu Val Asn Gly Gly Leu Thr Pro Pro
 50 55 60
 Lys Ser Glu Asp Lys Val Ser Glu Asn Gly Gly Leu Arg Phe Pro Arg
 65 70 75 80
 Asn Thr Glu Arg Pro Pro Glu Thr Gly Pro Trp Arg Ala Pro Gly Pro
 85 90 95
 Trp Glu Lys Thr Pro Glu Ser Trp Gly Pro Ala Pro Thr Ile Gly Glu
 100 105 110
 Pro Ala Pro Glu Thr Ser Leu Glu Arg Ala Pro Ala Pro Ser Ala Val
 115 120 125
 Val Ser Ser Arg Asn Gly Gly Glu Thr Ala Pro Gly Pro Leu Gly Pro
 130 135 140
 Ala Pro Lys Asn Gly Thr Leu Glu Pro Gly Thr Glu Arg Arg Ala Pro
 145 150 155 160
 Glu Thr Gly Gly Ala Pro Arg Ala Pro Gly Ala Gly Arg Leu Asp Leu
 165 170 175

Gly Ser Gly Gly Arg Ala Pro Val Gly Thr Gly Thr Ala Pro Gly Gly
 180 185 190
 Gly Pro Gly Ser Gly Val Asp Ala Lys Ala Gly Trp Val Asp Asn Thr
 195 200 205
 Arg Pro Gln Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Glu Ala Gln
 210 215 220
 Pro Arg Arg Leu Glu Pro Ala Pro Pro Arg Ala Arg Pro Glu Val Ala
 225 230 235 240
 Pro Glu Gly Glu Pro Gly Ala Pro Asp Ser Arg Ala Gly Gly Asp Thr
 245 250 255
 Ala Leu Ser Gly Asp Gly Asp Pro Pro Lys Pro Glu Arg Lys Gly Pro
 260 265 270
 Glu Met Pro Arg Leu Phe Leu Asp Leu Gly Pro Pro Gln Gly Asn Ser
 275 280 285
 Glu Gln Ile Lys Ala Arg Leu Ser Arg Leu Ser Leu Ala Leu Pro Pro
 290 295 300
 Leu Thr Leu Thr Pro Phe Pro Gly Pro Gly Pro Arg Arg Pro Pro Trp
 305 310 315 320
 Glu Gly Ala Asp Ala Gly Ala Ala Gly Gly Glu Ala Gly Gly Ala Gly
 325 330 335
 Ala Pro Gly Pro Ala Glu Glu Asp Gly Glu Asp Glu Asp Glu Asp Glu
 340 345 350
 Glu Glu Asp Glu Glu Ala Ala Ala Pro Gly Ala Ala Ala Gly Pro Arg
 355 360 365
 Gly Pro Gly Arg Ala Arg Ala Ala Pro Val Pro Val Val Val Ser Ser
 370 375 380
 Ala Asp Ala Asp Ala Ala Arg Pro Leu Arg Gly Leu Leu Lys Ser Pro
 385 390 395 400
 Arg Gly Ala Asp Glu Pro Glu Asp Ser Glu Leu Glu Arg Lys Arg Lys
 405 410 415
 Met Val Ser Phe His Gly Asp Val Thr Val Tyr Leu Phe Asp Gln Glu
 420 425 430
 Thr Pro Thr Asn Glu Leu Ser Val Gln Ala Pro Pro Glu Gly Asp Thr
 435 440 445
 Asp Pro Ser Thr Pro Pro Ala Pro Pro Thr Pro Pro His Pro Ala Thr
 450 455 460
 Pro Gly Asp Gly Phe Pro Ser Asn Asp Ser Gly Phe Gly Gly Ser Phe
 465 470 475 480
 Glu Trp Ala Glu Asp Phe Pro Leu Leu Pro Pro Pro Gly Pro Pro Leu
 485 490 495
 Cys Phe Ser Arg Phe Ser Val Ser Pro Ala Leu Glu Thr Pro Gly Pro
 500 505 510
 Pro Ala Arg Ala Pro Asp Ala Arg Pro Ala Gly Pro Val Glu Asn
 515 520 525

<210> 217

<211> 466

<212> DNA

<213> Homo sapien

<400> 217

gaatggtgcc	tgtcctgctg	tctctgctgc	tgcttctggg	tcctgctgtc	ccccaggaga	60
accaagatgg	tcgttactct	ctgacctata	tctacactgg	gctgtccaag	catgttgaag	120
acgtccccgc	gtttcaggcc	cttggtcac	tcaatgacct	ccagttcttt	agatacaaca	180

gtaaagacag	gaagtctcag	cccatgggac	tctggagaca	ggtggaagga	atggaggatt	240
ggaagcagga	cagccaactt	cagaaggcca	gggaggacat	ctttatggag	accctgaaag	300
acatcgtgga	gtattacaac	gacagtaacg	ggtctcacgt	attgcaggga	aggtttggtt	360
gtgagatcga	gaataacaga	agcagcggag	cattctggaa	atattactat	gatggaaagg	420
actacattga	attcaacaaa	gaaatcccag	cctgggtccc	cttcga		466

<210> 218

<211> 381

<212> DNA

<213> Homo sapien

<400> 218

gagtttcctt	cgcaagttca	tgtgggggtac	cttcccaggc	tgcctggctg	accagctggt	60
tttaaagcgc	cggggtaacc	agttggagat	ctgtgccgtg	gtcctgaggc	agttgtctcc	120
acacaagtac	tacttcctcg	tgggctacag	tgaaactttg	ctgtcctact	tttacaagt	180
tcctgtgcga	ctccacctcc	aaactgtgcc	ctcaaagggt	gtgtataagt	acctctagaa	240
caatcccctt	ttttccatca	agctgtagcc	tgcagagaat	ggaaacgtgg	gaaaggaatg	300
gtatgtgggg	gaaatgcac	ccctcagagg	actgaggcat	agtctctcat	ctgctattga	360
ataaagacct	tctatcttgt	a				381

<210> 219

<211> 1293

<212> DNA

<213> Homo sapien

<400> 219

gaggggaggg	gcatggcggg	gatggcgctg	gcgcgggcct	ggaagcagat	gtcctgggtc	60
tactaccagt	acctgctggt	cacggcgctc	tacatgctgg	agccctggga	gcggacgggtg	120
ttcaattcca	tgctgggttc	cattgtgggg	atggcactat	acacaggata	cgtcttcatg	180
ccccagcaca	tcatggcgat	attgcactac	tttgaaatcg	tacaatgacc	aagatgcgac	240
caggatcaga	ggttccttgg	ggaagaccca	ccctacgaag	ttggaatgag	accatcagat	300
gtgataagaa	actcttctag	atgtcaacat	aaccaacctt	ataaagacta	aaattcatga	360
gtagaacagg	aaaatcatcc	tgactcatgt	gttgtgttct	ttatttttaa	ttttcaaaga	420
ggctcttgta	tagcagtttt	tgtctatttt	aacattgtag	tcatttgtac	tttgatatca	480
gtatttttctt	aacctttgtg	actgtttcaa	tattaccccc	gtgaaagctt	ttcttaatgt	540
aactttgagt	acattttaat	tgcttcttat	ttttaaaact	caaaatcatt	agttgggctt	600
tactgttctt	gctattgtat	ggcatatata	tctgcctgga	tatatctcta	ctcttgacca	660
aagttttgta	aagaacaata	taagatttctg	ggtaggggta	tggggaggga	agatatttta	720
ttgagaacta	cttaacaaaa	gatttatctg	taagcttgaa	ctcaggagta	cagtttttagc	780
tatctagact	ctaacagctt	ttgcttttaa	attattaaag	tgtttcttaa	tgaaaaagaa	840
aagatcttgc	taaagttaaa	ataaggaaca	tttcaccttt	taaatattta	attcttatgt	900
ggacttattt	ccagaaaact	ttggtgataa	ttcttgagac	aaaagggtgt	taagtagcat	960
tattatgtaa	tgcttatata	ccatagagtt	tttaatagaa	gagaaatcca	tttcctccga	1020
gggtcactat	taacaatgta	cttccttaaa	tttagtttaa	tgattgtaat	gggtgctgca	1080
tttgcacatt	gcattaagtt	atgatgagac	gaattgttgt	taaaaattat	agcaaaaaga	1140
aatgtaaaact	tgggttaaaat	cctttcactc	tttgtattgt	tttttttaag	gtttttattc	1200
cttaaatgta	aaatgactac	ctaatttttt	gatgtaaata	cattaaattc	aaagagaaaa	1260
aaaatcaaaa	aaaaaaaaaa	aaaaaaactc	gag			1293

<210> 220

<211> 983

<212> DNA

<213> Homo sapien

<400> 220

caggttattc	tgatcctgcc	gcctgtcttc	cctgtaagag	tggagcctcg	aggtgtacct	60
taaagtgacc	ggaatgttag	agatgcaatt	tgacagagctg	gggcaaggaa	gggctccttg	120
tcactgtagt	tacttttcctt	gcagtggcca	aatgcccatt	aagaagggaat	acatgaccac	180
tgctgtgggg	agtcagcagg	tgctgtgatgc	agctggccac	actccatcca	cggccatgac	240
ataaaacaga	caagaagtaa	ggctggactg	taacacctca	aggcctgctc	cagtgaccca	300
ctttcttcag	agaggctcta	ccacacacac	aaccaccttc	caaatttaca	ctcagatcac	360
tacaccatgt	ctcccaagtt	aaaacatgta	tccacctaga	ctttaaatgt	gctttgtaac	420
tggtgatggc	actgtacaga	gggccaaagt	atttcccatc	agatagcatt	tttctgaacc	480
catgcctctt	gggacgagat	cacaggactt	gacccatcat	caaataaggac	caggtgacct	540
acagagacat	cacaatgatg	gcttcctaca	gtcaagtcca	tttccaataa	tgctctcatc	600
taagagaacc	catgaacctt	atttgaatcc	tggttcaaac	aaaaacctta	aattatttat	660
gagacaatta	taaacttgat	agattttgat	gtgtgaaggt	atttatgaat	atttttagtc	720
agtgatggta	tactgttaag	gaaaagggtc	atatttttagg	gacaaaggct	gaaacattta	780
tgacacagag	gatatgatat	ctgggatttg	ttttaggatg	aagtgggagg	gaggaaatga	840
atggaaatag	tggtgaaaca	gtattggcca	cgagtcagct	attgtgtgct	aagacgctcc	900
tcacaccagt	ctactctgta	tgtgtttgaa	tatctctgta	ataaacttaa	caaggaaaaa	960
aaaaaaaaaa	aaaaaaactc	gag				983

<210> 221

<211> 373

<212> DNA

<213> Homo sapien

<400> 221

catttttatgg	gttaattttt	tattaaatag	caataagata	cttttataac	tcaataaaat	60
tattcaatga	tacattcgga	aaataaatgt	ataaaatatg	aaaaagtact	aaaaagcatt	120
tttcagtact	tttaggtaag	attaatccaa	ctaaacacta	gcatatgtta	tacagtaata	180
ataaggggaa	aatacaataa	tggtgagaaa	gcaaactcaa	agcatagatc	aatgaaaaaa	240
ttgagaaatg	gacataaatg	atttagtatt	tttaaagaga	gtgaaaaatc	attattttat	300
gctttttgtgt	agcgtttagat	gaattaaata	acatatgcac	atatagcttt	gcgatacaaa	360
tttccagacc	ata					373

<210> 222

<211> 544

<212> DNA

<213> Homo sapien

<400> 222

cagagatgct	gctgctacaa	aggatcggtg	taagcagtta	acccaggaaa	tgatgacaga	60
gaaagaaaga	agcaatgtgg	ttataacaag	gatgaaagat	cgaattggaa	cattagaaaa	120
ggaacataat	gtattttcaa	acaaaataca	tgctcagttat	caagagactc	aacagatgca	180
gatgaagttt	cagcaagttc	gtgagcagat	ggaggcagag	atagctcact	tgaagcagga	240
aatgggtata	ctgagagatg	cagtcagcaa	cactacaaat	caactggaaa	gcaagcagtc	300
tgacagaacta	aataaaactac	gccaggatta	tgctaggttg	gtgaatgagc	tgactgagaa	360
aacaggaaaag	ctacagcaag	aggaagtcca	aaagaagaat	gctgagcaag	cagctactca	420
gttgaaggtt	caactacaag	aagctgagag	aaggtgggaa	gaagttcaga	gctacatcag	480
gaagagaaca	gcggaacatg	aggcagcaca	gctagattta	cagagtaaat	ttgtggccaa	540
agaa						544

<210> 223

<211> 316

<212> DNA

<213> Homo sapien

<400> 223

gaggcaaggg	atatgcttta	gtgcctatta	tagttaattc	ttcaactcca	aagtctaaaa	60
cagttgaatc	tgctgaagga	aaatctgaag	aagtaaatga	aacattagtt	ataccactg	120
aggaagcaga	aatggaagaa	agtggacgaa	gtgcaactcc	tgtaactgt	gaacagcctg	180
atatcttgg	ttcttctaca	ccaataaatg	aaggacagac	tgtgttagac	aaggtggctg	240
agcagtgtga	acctgctgaa	agtcagccag	aagcacttct	gagaggaaga	tgtttgcaag	300
gtaactctaa	cagttg					316

<210> 224

<211> 1583

<212> DNA

<213> Homo sapien

<400> 224

cagaccacgt	ctgccctcgc	cgctctagcc	ctgcgcccc	gcccggccgc	ggcacctccg	60
cctcgccgcc	gctaggtcgg	ccggctccgc	ccggctgccg	cctaggatga	atatcatgga	120
cttcaacgtg	aagaagctgg	cgcccgacgc	aggcaccttc	ctcagtcgcg	ccgtgcagtt	180
cacagaagaa	aagcttgccc	aggctgagaa	gacagaattg	gatgctcact	tagagaacct	240
ccttagcaaa	gctgaatgta	ccaaaatatg	gacagaaaaa	ataatgaaac	aaactgaagt	300
gttattgcag	ccaaatccaa	atgccaggat	agaagaattt	gtttatgaga	aactggatag	360
aaaagctcca	agtcgtataa	acaaccacga	acttttgagg	caatatatga	ttgatgcagg	420
gactgagttt	ggcccaggaa	cagcttatgg	taatgccttt	attaaatgtg	gagaaaccca	480
aaaaagaatt	ggaacagcag	acagagaact	gattcaaacg	tcagccttaa	atcttcttac	540
tcctttaaga	aactttatag	aaggagatta	caaaacaatt	gctaaagaaa	ggaaactatt	600
gcaaaataag	agactggatt	tggatgctgc	aaaaacgaga	ctaaaaaagg	caaaagctgc	660
agaaactaga	aattcatctg	aacaggaatt	aagaataact	caaagtgaat	ttgatcgtca	720
agcagagatt	accagacttc	tgctagaggg	aatcagcagt	acacatgccc	atcaccttcg	780
ctgtctgaat	gactttgtag	aagcccagat	gacttactat	gcacagtgtt	accagtatat	840
gttggaacctc	cagaaacaac	tgggaagttt	tccatccaat	tatcttagta	acaacaatca	900
gacttctgtg	acacctgtac	catcagtttt	accaaatgcg	attggttctt	ctgccatggc	960
ttcaacaagt	ggcctagtaa	tcacctctcc	ttccaacctc	agtgacctta	aggagtgtag	1020
tggcagcaga	aaggccaggg	ttctctatga	ttatgatgca	gcaaacagta	ctgaattatc	1080
acttctggca	gatgaggtga	tactgtgttt	cagtgttgtt	ggaatggatt	cagactggct	1140
aatgggggaa	aggggaaacc	agaagggcaa	ggtgcccaatt	acctacttag	aactgctcaa	1200
ttaagtaggt	ggactatgga	aagggtgccc	atcatgactt	tgtatttata	tacaattaac	1260
tctaaataaa	gcaggttaag	tatcttccat	gttaatgtgt	taagagactg	aaaataaccag	1320
ccatcagaaa	ctggcctttt	tgccaataaa	gttgcatggg	aaatatattca	ttacagaatt	1380
tatgttagag	ctttcatgcc	aagaatgttt	tcttacaata	ttctcttttt	attgaggttt	1440
cactaataag	cagcttctac	ttttgagcct	caacttaaa	cagaactgtt	ttttactgga	1500
tttttcatta	acagcaagct	ttttttttta	tgtaaaaata	atctattgtg	aattgaaaaa	1560
aaaaaaaaaa	aaaaaaactc	gag				1583

<210> 225

<211> 491

<212> DNA

<213> Homo sapien

<400> 225

gaacaacatc	atcttgaatc	actagataga	ctcttgacgg	aaagcaaagg	ggaaatgaaa	60
aaggaaaata	tgaagaaaga	tgaagcttta	aaagcattac	agaaccaagt	atctgaagaa	120
acaatcaagg	ttaggcaact	agattcagca	ttggaaattt	gtaaggaaga	acttgtcttg	180
catttgaatc	aattggaagg	aaataaggaa	aagtttgaaa	aacagttaaa	gaagaaatct	240
gaagaggtat	attgtttaca	gaaagagcta	aagataaaaa	atcacagtct	tcaagagact	300

tctgagcaaa	acgttattct	acagcatact	cttcagcaac	agcagcaaat	gttacaacaa	360
gagacaatta	gaaatggaga	gctagaagat	actcaaacta	aacttgaaaa	acaggtgtca	420
aaactggaac	aagaacttca	aaaacaaagg	gaaagttcag	ctgaaaagtt	gagaaaaatg	480
gaggagaaat	g					491

<210> 226

<211> 483

<212> DNA

<213> Homo sapien

<400> 226

cagccgcacg	ccgcggagca	ggggctcgga	ggtcccggga	ttacgggtgct	cgagcacgct	60
ggtgggaaag	gacccgggac	ttgaacagtg	ttgtgcggcg	ccatgcagggt	ctccagcctc	120
aatgagggtga	agatttacag	cctcagctgc	ggcaagtccc	ttcctgagtg	gctttctgat	180
aggaagaaga	gagcgctaca	gaagaaagat	gtagatgtcc	gtagggagaat	tgaacttatt	240
caggactttg	aaatgcctac	tgtgtgtacc	actattaagg	tgtcaaaaaga	tggacagtac	300
attttagcaa	ctggaacata	taaacctcgg	gttcgatgtt	atgacaccta	tcaattatcc	360
ttgaagtttg	aaaggtgttt	agattcagaa	gttgtcacct	ttgaaatttt	gtctgatgac	420
tactcaaaga	ttgtcttctt	acataatgat	agatacattg	aatttcattc	gcaatcagggt	480
ttt						483

<210> 227

<211> 486

<212> DNA

<213> Homo sapien

<400> 227

gagcctcgct	aagctccgac	tctgggcggc	accggggcgtc	ccacgatgcc	gaagaacaag	60
aagcgggaaca	ctccccaccg	cggtagcagt	gctggcgggcg	gcggggtcagg	agcagccgca	120
gcgacggcgcg	cgacagcagg	tggccagcat	cgaaatgttc	agccttttag	tgatgaagat	180
gcatcaattg	aaacagtgag	ccattgcagt	ggttatagcg	atccttccag	ttttgctgaa	240
gatggaccag	aagtccttga	tgaggaagga	actcaagaag	acctagagta	caagttgaag	300
ggattaattg	acctaaccct	ggataagagt	gcgaagacaa	ggcaagcagc	tcttgaaggt	360
attaaaaatg	cactggcttc	aaaaatgctg	tatgaattta	ttctggaaag	gagaatgact	420
ttaactgata	gcattgaacg	ctgcctgaaa	aaaggtaaga	gtgatgagca	acgtgcagct	480
gcagcg						486

<210> 228

<211> 494

<212> DNA

<213> Homo sapien

<400> 228

gaggccagga	ctccggggaat	gcgagcaggc	cccttattct	cccagtggcc	tcgggtctgtc	60
cccacagcgg	cccggtcagg	gttgcccagag	ccccaaaggcg	gggggcggca	ccgggggtgct	120
gaaagggaca	gaatgctttg	acctccaagc	tgttttaaat	ctagtagata	agccagatcc	180
tgtgttgcca	taagcccttg	gcccacattt	aagtgggaat	gcagctagct	tggatgtctg	240
aaactttgta	agcgctttct	gtctgaatcc	tgaacacagg	caccaagact	actgaagaag	300
ctcgtcattc	ttgtgcaggg	atagccacac	aagcaaacat	gtttgcaaaa	cttgaaagaa	360
agaaaattgc	agaaagaaga	cttgctgttc	ttaagaggcc	caggaagggtg	ctacttagga	420
atcccaccgg	cttgtgaagc	aagggaatca	agtttgcctt	caatggggaa	cttgacttca	480
ggaaaatgaa	cttt					494

<210> 229

<211> 465
 <212> DNA
 <213> Homo sapien

<400> 229

gtcagagagc	tggtataacc	tcctggttga	catgcagAAC	cgactcaata	aggTcatcaa	60
aagcgtgggc	aagattgagc	actccttctg	gagatccttt	cacactgagc	gaaagacaga	120
accagccaca	ggcttcatcg	atggtgatct	gattgaaagt	ttcctagata	tcagccgccc	180
taagatgcag	gagggttggtg	caaacttgca	gtatgatgat	ggcagtggta	tgaagcggga	240
ggcaactgca	gatgacctca	tcaaagtcgt	ggaggaacta	actcggatcc	attagccaag	300
gacaggatct	cttttcctga	ccctcctaaa	ggcgttgccc	tcctatcctc	ccttccttgc	360
ccacccttgg	tttctttggc	atgggaaggt	tttccttaac	cacttgccct	agagccacca	420
gtgaccttgt	gtggaaacag	ggtttttttt	acttaaaaca	gttca		465

<210> 230
 <211> 495
 <212> DNA
 <213> Homo sapien

<400> 230

caggggaaag	ggtgtttggc	cttgaccagc	cactgctgac	ctcaatctca	gacctacaga	60
tggtgaatat	ctccctgcga	gtgttgctc	gacccaatgc	tcaggagctt	cctagcatgt	120
accagcgctt	agggctggac	tacgaggaac	gagtgttgcc	gtccattgtc	aacgaggtgc	180
tcaagagtgt	ggtggccaag	ttcaatgcct	cacagctgat	caccagcg	gccaggtat	240
ccctgttgat	ccgccgggag	ctgacagaaa	gggccaagg	acttcagcct	catcctggat	300
gatgtggcca	tcacagactt	gagcttttagc	cgagaagtac	acaagctgcc	tgtaagaaac	360
ccaaccaagt	ggggtgaatt	ccaaaaaccc	gtgggggtga	agggcttctt	aagaatgcaa	420
ggaaggagga	aaagaattcc	atgggggggg	ggttccttaa	cccaggaaca	ggggtttccc	480
ttgaattttt	ttcca					495

<210> 231
 <211> 498
 <212> DNA
 <213> Homo sapien

<400> 231

ggcagcttct	gagaccagg	ttgctccgtc	cgtgctccgc	ctcgccatga	cttcctacag	60
ctatcgccag	tcgtcggcca	cgtcgtcctt	cggaggcctg	ggcggcggtt	ccgtgcgttt	120
tggggccggg	gtcgcttttc	gcgcgccag	cattcacggg	ggctccggcg	gccgcggcgt	180
atccgtgtcc	tcgcgccgct	ttgtgtcctc	gtcctcctcg	gggggctacg	gcggcggtta	240
cggcggcgtc	ctgaccgcgt	ccgacgggct	gctggcgggc	aacgagaagc	taaccatgca	300
gaacctcaac	gaccgcctgc	ctcctacctg	gacaaagtgc	gcgccttgga	agcgggcaac	360
ggcgaactta	gaggtgaaag	aatcccgcga	actggtacca	aaaacaagg	gcctggggcc	420
ttccgcgact	tacagccaac	ttactacacc	gaacattcaa	gaacttgccg	gaacaaaaat	480
ttttggtgcc	accattt					498

<210> 232
 <211> 465
 <212> DNA
 <213> Homo sapien

<400> 232

caggccggcc	gagtaggaaa	gctggaggcg	cgggtgggga	acatgtctga	gtcggagctc	60
ggcaggaagt	gggaccggtg	tctggcggtg	gcggtcgtga	agataggtac	tggttttggg	120

ttaggaattg	ttttctcact	taccttcttt	aaaagaagaa	tgtggccatt	agccttcggt	180
tctggcatgg	gattaggaat	ggcttattcc	aactgtcagc	atgatttcca	ggctccatat	240
cttctacatg	gaaaatatgt	caaagagcag	gagcagtgac	ttcacctgag	aacatcccag	300
cgggaggaca	agagaaaatc	atgtttattc	ctcaggaata	cttgaagtgc	cctggagtaa	360
actgccattc	ttctgtaaca	atggatatcag	taatgcttta	aactccagca	cctggttatg	420
catttgaaac	ccaagtctgg	ttcttggttt	ggattttctc	tctgg		465

<210> 233
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 233						
cagtaaaaaa	ggttatgttt	tattaattgc	tggacaaccg	tgggaaaaca	aataagcaat	60
tgacaccacc	aaattcttat	tacattcaan	ataaaanatt	tattcacacc	acaaaaagat	120
aatcacaaca	aatatacac	taacttaaaa	aacaaaagat	tatagtga	taaaatgtta	180
tattctcttt	ttaagtgggt	aaaagtattt	tgtttgcttc	tacataaatt	tctattcatg	240
ananaataac	aatattataa	atacagtgat	agtttgcatt	tcttctatag	aatgaacata	300
gacataacc	tgaagctttt	agtttacagg	gagtttccat	gaagccacaa	actaaactaa	360
ttatca						366

<210> 234
 <211> 379
 <212> DNA
 <213> Homo sapien

<400> 234						
gagggcagcc	ctcctacctg	cgcacgtggt	gccgccgctg	ctgcctcccg	ctcgccctga	60
accagtgcc	tgcagccatg	gctcccggcc	agctcgccct	atttagtgtc	tctgacaaaa	120
ccggccttgt	ggaatttgca	agaaacctga	ccgctcttgg	tttgaatctg	gtcgcttccg	180
gagggactgc	aaaagctctc	agggatgctg	gtctggcagt	cacagatgtc	tctgagttga	240
cgggatttct	gaaatgttgg	ggggacgtgt	gaaaactttg	catcctgcac	gatcccatgc	300
tggaaatccta	gctcctaata	ttcagaagat	aatgcttgac	atgcgccaca	cttgattcaa	360
tcttataaca	attgttgcc					379

<210> 235
 <211> 406
 <212> DNA
 <213> Homo sapien

<400> 235						
caggctgcac	catgtacccc	accttcagtt	taaaagaaaa	aaaaaatccc	cttcactcct	60
actgggaggt	gggacccctt	tcattttcag	ttttgctcat	ctagggaaaa	taaggctttg	120
gtttccagtt	taattgtttt	tgaccttcta	aaatgttttt	atgttagcac	tgatagttgg	180
cattactggt	gttaagcact	gtgttccaga	ccgtgtctga	cttagtgtaa	cctaggagat	240
tttatagttt	tatttttaag	aaaccctgat	tgacgcacag	cagtggggag	aacagcgtct	300
tttacctgtc	accgaagcca	ggaagccccg	tttgtaagcg	tgtgttgg	tgctttattg	360
tacatcctcc	agtggcgctt	tttttactct	aatgttcttt	tggttt		406

<210> 236
 <211> 278
 <212> DNA
 <213> Homo sapien

<400> 236
 gagattagca cctgtgaaca atgcgttctc tgatgacact ctgagcatgg accaacgcct 60
 tcttaagcta attctgcaaa atcacatatt gaaagtaaaa gttggcctta gcgacctcta 120
 caatggacag atactggaaa ccattggagg caaacaactc cgagtctttg tgtatcggac 180
 ggctatctgc atagaaaact catgcatggg gagaggaagc aagcagggaa ggaacgggtgc 240
 cattcacata ttccgagaga tcatccaacc agcagaat 278

<210> 237
 <211> 322
 <212> DNA
 <213> Homo sapien

<400> 237
 cagggccgtg gcggaggagg agcgtgcac ggtggagcgt cgggcccacc tcacctacgc 60
 ggagttcgtg cagcagtacg tgcgccctg atcgcgagg tgcgtcctg ttcaccggcc 120
 cgtctgccc gaccgccc aa ggccgccttc ccctgacctc gcgcgcacgc gtggggctgg 180
 ggccggcgagg ctggcggtcc ggccctggcc cgactctgcc cttctttcca gaggttccgg 240
 gccctgtgct cccgcgacag gttgctggct tcgtttgggg acagagtggg ccggtgagca 300
 ccgccaacac ctactctac ct 322

<210> 238
 <211> 613
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (399)
 <223> n=A,T,C or G

<400> 238
 gaattcggca ccagccttct tggatcagga ccagtctcca ccccgtttct acagtggaga 60
 tcagcctcct tcttatcttg gtgcaagtgt ggataaactc catcaccctt tagaatttgc 120
 agacaaatct cccacacctc ctaatttacc tagcgataaa atctaccctc cttctgggtc 180
 ccccggaagag aataccagca cagccaccat gacttacatg acaactactc cagcaacagc 240
 ccaaattgagc accaaggaag ccagctggga tgtggctgaa caaccaccca ctgctgattt 300
 tgctgctgcc aacttcagc gcacgcacag aactaatcgt ccccttcccc ctccgccttc 360
 ccagagatct gcagagcagc caccagttgt ggggcaggna caagcagcaa ccaatatagg 420
 attaaataat tcccacaagg ttcaaggagt agttccagtt ccagagaggc cacctgaacc 480
 tcgagccatg gatgaccctg cgtctgcctt catcagtac agtggtgctg ctgctgctca 540
 gtgtcccatg gctacagctg tccagccagg cctgcctgag aaagtgcggg acggtgcccg 600
 ggtcccgtg ctg 613

<210> 239
 <211> 613
 <212> DNA
 <213> Homo sapiens

<400> 239

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gaattcggca ccaggggaca ctggtgctga gctggatgat gatcagcact ggtctgacag 60
cccgtcggat gctgacagag agctgcgttt gccgtgccca gctgaggggg aagcagagct 120
ggagctgagg gtgtcggaag atgaggagaa gctgcccgcc tcaccgaagc accaagagag 180
aggtccctcc caagccacca gcccacatccg gtctccccag gaatcagctc ttctgttcat 240
tccagtccac agcccctcaa cagagggggcc ccaactccca cctgtccctg ccgccaccca 300
ggagaaatca cctgaggagc gcctttttccc tgagcctttg ctccccaaag agaagcccaa 360
agctgatgcc cctcggatc tgaaagctgt gcaactctcc atccgatcac agccagtgc 420
cctgccagaa gctaggactc ctgtctcacc agggagcccg cagccccagc caccgtggc 480
ggcctccacg cccccacca gcgaggtctc cagagccttc tctctcctgt gcaaaatggc 540
aactcttaag gaaaaactca ttgcaccagt tgcggaagaa gaggcaacag ttccaaacaa 600
taagatcact gta 613

```

<210> 240

<211> 585

<212> DNA

<213> Homo sapiens

<400> 240

```

gaattcggca cgaggtgaga tctacgatga actttaagat tggaggtgtg acagaacgca 60
tgccaacccc agttattaaa gcttttgcca tcttgaagcg agcggccgct gaagtaaacc 120
aggattatgg tcttgatcca aagattgcta atgcaataat gaaggcagca gatgaggtag 180
ctgaaggtaa attaaatgat cattttcctc tcgtgggatg gcagactgga tcaggaactc 240
agacaaatat gaatgtaaat gaagtcatta gcaatagagc aattgaaatg ttaggaggtg 300
aacttggcag caagatacct gtgcacccca acgatcatgt taataaaagc cagagctcaa 360
atgatacttt tcccacagca atgcacattg ctgctgcaat agaagttcat gaagtactgt 420
taccaggact acagaagtta catgatgctc ttgatgcaaa atccaaagag tttgcacaga 480
tcatcaagat tggacgtact catactcagg atgctgttcc acttactctt gggcaggaat 540
ttagtggtta tgttcaacaa gtaaaatatg caatgacaag aataa 585

```

<210> 241

<211> 566

<212> DNA

<213> Homo sapiens

<400> 241

```

gaattcggca ccaggcgagc tgcacctcga ggtgaaggcc tcaactgatga acgatgactt 60
cgagaagatc aagaactggc agaaggaagc ctttcacaag cagatgatgg gcggcttcaa 120
ggagaccaag gaagctgagg acggctttcg gaaggcacag aagccctggg ccaagaagct 180
gaaagaggta gaagcagcaa agaaagccca ccatgcagcg tgcaaagagg agaagctggc 240
tatctcacga gaagccaaca gcaaggcaga cccatccctc aaccctgaac agctcaagaa 300
attgcaagac aaaatagaaa agtgcaagca agatgttctt aagaccaaag agaagtatga 360
gaagtccctg aaggaactcg accagggcac accccagtac atggagaaca tggagcaggt 420
gtttgagcag tgccagcagt tcgaggagaa acgccttcgc ttcttccggg aggttctgct 480
ggaggttcag aagcacctag acctgtccaa tgtggctggc tacaaagcca tttacatga 540
cctggagcag agcatcagag cagctg 566

```

<210> 242

<211> 556

<212> DNA

<213> Homo sapiens

<400> 242

```

gaattcggca cgagcaaagg tgaagcagga catgcctccg cccgggggct atgggcccat 60

```



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cgactacaaa cggaacttgc cgcgtcgagg actgtcgggc tacagcatgc tggccatagg 120
gattggaacc ctgatctacg ggcactggag cataatgaag tggaaccgtg agcgcaggcg 180
cctacaaatc gaggacttcg aggctcgcat cgcgctgttg ccactgttac aggcagaaac 240
cgaccggagg accttgcaga tgcttcggga gaacctggag gaggaggcca tcatcatgaa 300
ggacgtgccc gactggaagg tgggggagtc tgtgttccac acaaccgct gggtgcccc 360
cttgatcggg gagctgtacg ggctgcgcac cacagaggag gctctccatg ccagccacgg 420
cttcatgtgg tacacgtagg ccctgtgccc tccggccacc tggatccctg cccctcccca 480
ctgggacgga ataaatgctc tgcagacctg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa ctcgag                                     556

```

```

<210> 243
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<400> 243
gtctatgttt gcagaaatac agatccaaga caaagacagg atgggcactg ctggaaaagt 60
tattaaatgc aaagcagctg tgctttggga gcagaagcaa cccttctcca ttgaggaaat 120
agaagttgcc ccaccaaaga ctaaagaagt tcgcattaag attttggcca caggaatctg 180
tcgcacagat gaccatgtga taaaaggaac aatgggtgtcc aagtttccag tgattgtggg 240
acatgaggca actgggattg tagagagcat tggagaagga gtgactacag tgaaaccagg 300
tgacaaagtc atccctctct ttctgccaca atgtagagaa tgcaatgctt gtcgcaaccc 360
agatggcaac ctttgcatta ggagcgatat tactggtcgt ggagtactgg ctgatggcac 420
caccagattt acatgcaagg gcaaaccagt ccaccacttc atgaacacca gtacatttac 480
cgagtacaca gtgggtggatg aatcttctgt tgctaagatt gatgatgcag ctctctctga 540
gaaagtctgt ttaattggct gtgggttttc cactggatat ggcgctgctg t                                     591

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```

<210> 244
<211> 594
<212> DNA
<213> Homo sapiens

```

```

<400> 244
gaattcggca cgagaacaga gtgaactgag catcagtcag aaaaagtcta tgtttgcaga 60
aatacagatc caagacaaag acaggatggg cactgctgga aaagttatta aatgcaaagc 120
agctgtgctt tgggagcaga agcaaccctt ctccattgag gaaatagaag ttgccccacc 180
aaagactaaa gaagttcgca ttaagatttt ggccacagga atctgtcgca cagatgacca 240
tgtgataaaa ggaacaatgg tgtccaagtt tccagtgatt gtgggacatg aggcaactgg 300
gattgtagag agcattggag aaggagtgcac tacagtgaag ccaggtgaca aagtcatccc 360
tctctttctg ccacaatgta gagaatgcaa tgcttgtcgc aaccagatg gcaacctttg 420
cattaggagc gatattactg gtcgtggagt actggctgat ggcaccacca gatttacatg 480
caagggcaaa ccagtccacc acttcatgaa caccagtaca tttaccgagt acacagtggg 540
ggatgaatct tctgttgcta agattgatga tgcagctcct cctgagaaag tctg                                     594

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```

<210> 245
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (105)
<223> n=A,T,C or G

```


<400> 245
gtccctttcc tctgctgccg ctccggtcacg cttgtgcccg aaggaggaaa cagtgcacaga 60
cctggagact gcagttctct atccttccac agctctttca ccatnctgga tcacttcctt 120
tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt tgcccttgag atctattttc 180
cttctcaata tgttgatcaa gcagagttgg aaaaatatga tgggtgtagat gctggaaagt 240
ataccattgg cttgggccag gccaaagatg gcttctgcac agatagagaa gatattaact 300
ctctttgcat gactgtggtt cagaatctta tggagagaaa taacctttcc tatgattgca 360
ttggggcggct ggaagttgga acagagacaa tcatcgacaa atcaaagtct gtgaagacta 420
atgtgatgca gctgtttgaa gagtctggga atacagatat agaaggaatc gacacaacta 480
atgcatgcta tggaggcaca gctgctgtct tcaatgcttg ttaactggat tgagtccagc 540
tcttgggatg gacggtatgc cctggtaagt tgcaggagat attgctgtat atgccacagg 600
aaatgctaga cctac 615

<210> 246
<211> 546
<212> DNA
<213> Homo sapiens

<400> 246
gaattcggca ccaggctgcc tcccgcctgc cctgaaccca gtgcctgcag ccatggctcc 60
cggccagctc gccttattta gtgtctctgc aaaaccggcc ttgtgaattt gcaagaaacc 120
tgaccgctct tggtttgaat ctggctcgctt ccggaggggac tgcaaaagct ctcagggatg 180
ctggctctggc agtcagagat gtctctgagt tgacgggatt tcctgaaatg ttgggggggac 240
gtgtgaaaac tttgcatcct gcagtcctatg ctggaatcct agctcgtaat attccagaag 300
ataatgctga catggccaga cttgatttca atcttataag agttgttgcc tgcaatctct 360
atccctttgt aaagacagtg gcttctccag gtgtaactgt tgaggaggct gtggagcaaa 420
ttgacattgg tggagtaacc ttactgagag ctgcagccaa aaaccacgct cgagtgcagc 480
tggtgtgtga accagaggac tatgtgggtg ggtgtccacg gagatgcaga gctccgagag 540
taagga 546

<210> 247
<211> 564
<212> DNA
<213> Homo sapiens

<400> 247
gaattcggca ccagagatca cgtgcagtga gatgcagcaa aaagttgaac ttctgagata 60
tgaatctgaa aagcttcaac aggaaaattc tatttttgaga aatgaaatta ctactttaaa 120
tgaagaagat agcattttcta acctgaaatt agggacatta aatggatctc aggaagaaat 180
gtggcaaaaa acggaaactg taaaacaaga aaatgctgca gttcagaaga tggttgaaaa 240
tttaaagaaa cagatttcag aattaaaaat caaaaaccaa caattggatt tggaaaatac 300
agaacttagc caaaagaact ctcaaaacca ggaaaaactg caagaactta atcaacgtct 360
aacagaaatg ctatgccaga aggaaaaaga gccaggaaac agtgcattgg aggaacggga 420
acaagagaag tttaaatctga aagaagaact ggaacgttgt aaagtgcagt cctccacttt 480
agtgtcttct ctggaggcgg agctctctga agttaaaata cagaccata ttgtgcaaca 540
ggaaaaccac cttctcaaag atga 564

<210> 248
<211> 434
<212> DNA
<213> Homo sapiens

<400> 248
gttcttgttt gtggatcgct gtgatcgtca cttgacaatg cagatcttcg tgaagactct 60

gactggtaag	accatcaccc	tcgaggttga	gcccagtgac	accatcgaga	atgtcaaggc	120
aaagatccaa	gataaggaag	gcatccctcc	tgaccagcag	aggctgatct	ttgctggaaa	180
acagctggaa	gatgggcgca	ccctgtctga	ctacaacatc	cagaaagagt	ccaccctgca	240
cctggtgctc	cgtctcagag	gtgggatgca	aatcttcgtg	aagacactca	ctggcaagac	300
catcacccctt	gaggtggagc	ccagtgacac	catcgagaac	gtcaaagcaa	agatccagga	360
caaggaaggc	attcctcctg	accagcagag	gttgatcttt	gccggaaagc	cagcctggga	420
agatggggcc	gccca					434

<210> 249
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 249						
gcgggcccag	gaggcggcgg	cggcggcggc	ggacggggccc	cccgcggcag	acggcgagga	60
cggacaggac	ccgcacagca	agcacctgta	cacggccgac	atgttcacgc	acgggatcca	120
gagcgccgcg	cacttcgtca	tgttcttcgc	gccctggtgt	ggacactgcc	agcggctgca	180
gccgacttgg	aatgacctgg	gagacaaata	caacagcatg	gaagatgcca	aagtctatgt	240
ggctaaagtg	gactgcacgg	cccactccga	cgtgtgctcc	gcccaggggg	tgcgaggata	300
ccccacctta	aagcttttca	agccaggcca	agaagctgtg	aagtaccagg	gtcctcggga	360
cttccagaca	ctggaaaact	ggatgctgca	gacactgaac	gaggagccag	tgacac	416

<210> 250
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 250						
gaattcggca	cgaggcgggt	aacgttatag	tatttgtcag	aagttggggg	ctccgtgggc	60
attgtgatcc	gtcccaggca	gtggattagg	aggccagaag	gagatccctt	ccacgggtgct	120
aggctgagat	ggatcctctc	agggcccaac	agctggctgc	ggagctggag	gtggagatga	180
tggccgatat	gtacaacaga	atgaccagtg	cctgccaccg	gaagtgtgtg	cctcctcact	240
acaaggaagc	agagctctcc	aagggcgagt	ctgtgtgcct	ggaccgatgt	gtctctaagt	300
acctggacat	ccatgagcgg	atgggcaaaa	agttgacaga	gttgtctatg	caggatgaag	360
agctgatgaa	gaggggtgcag	cagagctctg	ggcctgcatg	aggtccctgt	cagtatacac	420
cctgggggtgt	acccaccccc	ttcccacttt	aataaacgtg	ctccctgttg	ggtgtcatct	480
gtgaagactg	ccaggcctag	ctct				504

<210> 251
 <211> 607
 <212> DNA
 <213> Homo sapiens

<400> 251						
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tactctgctc	aaccatatgt	taattcatgg	tctgtcttgt	ccatattgcc	gttcaacttt	120
caatgatgtg	gaaaagatgg	ccgcacacat	gcggatgggt	cacattgatg	aagagatggg	180
acctaaaaca	gattctactt	tgagttttga	tttgacattg	cagcagggtg	gtcacactaa	240
catccatctc	ctggtaacta	catacaatct	gagggatgcc	ccagctgaat	ctgttgctta	300
ccatgcccaa	aataatcctc	cagttcctcc	aaagccacag	ccaaagggtc	aggaaaaggc	360
agatatccct	gtaaaaagtt	cacctcaagc	tgcagtgccc	tataaaaaag	atgttgggaa	420
aaccctttgt	cctcttttgc	tttcaatcct	aaaaggaccc	atatctgatg	cacttgacac	480
tcacttacga	gagaggcacc	aagttattca	gacggttcat	ccagttgaga	aaaagctcac	540
ctacaaatgt	atccattgcc	ttggtgtgta	taccagcaac	atgaccgcct	caactatcac	600

tctgcat

607

<210> 252

<211> 618

<212> DNA

<213> Homo sapiens

<400> 252

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gaattcgcac caggggtcct gctggtcttc gcctttcttc tccgcttcta ccccgtcggc 60
cgctgccact ggggtccctg gccccaccga catggcggcg gtgttgagca agtcctggag 120
cgcacggagc tgaacaagct gcccaagtct gtccagaaca aacttgaaaa gttccttgct 180
gatcagcaat ccgagatcga tggcctgaag gggcggcatg agaaatttaa ggtggagagc 240
gaacaacagt attttgaaat agaaaagagg ttgtcccaca gtcaggagag acttgtgaat 300
gaaacccgag agtgtcaaag cttgcggctt gagctagaga aactcaacaa tcaactgaag 360
gcactaactg agaaaaacaa agaacttgaa attgctcagg atcgcaatat tgccattcag 420
agccaattta caagaacaaa ggaagaatta gaagctgaga aaagagactt aattagaacc 480
aatgagagac tatctcaaga acttgaatac ttaacagagg atgttaaacy tctgaatgaa 540
aaacttaaag aaagcaatac aacaaagggg gaacttcagt taaaattgga tgaacttcaa 600
gcttctgatg tttctgtt                                     618

```

<210> 253

<211> 1201

<212> DNA

<213> Homo sapiens

<400> 253

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gaattcggca ccaggggtggc gagcgcggct gctgtgctgg ggcgagcagc ggggaccgtg 60
tgtgagtttg gcatgatttg gtcccctggg attctgcctt agcaagaaag aagttggaaa 120
tacttcctgg aagaaaacta aaacaataca aaagccacag cttattgatt gcatgtcagc 180
ccccttacaa atatggacac atttcctagc ctatttccac ctggaggaga tagtaggctg 240
aatcctgagc ctgagttcca aaatatgtta attgatgaaa gggtagcgtg tgaacatcat 300
aaacataatt atcaggctct gaaaattgaa cacaaaaggt tgcaggaaga atatgtaaaa 360
tcacaaaatg aacttaaacg tgtattaatt gaaaagcaag caagccagga aaaattccaa 420
ctgctccttg aagacttaag gggagaatta gtagagaaag ctagagacat agaaaaaatg 480
aaactgcagg tactaacacc acaaaaattg gaattggtaa aagcccaact acaacaagaa 540
ttagaagctc caatgcgaga acgttttctg actcttgatg aagaagtgga aaggtacaga 600
gctgagtata acaagctgcg ctacgagtat acatttctca agtcagagtt tgaacaccag 660
aaagaagagt ttactcgggt ttcagaagaa gagaaaatga aatacaagtc agaggttgca 720
cgactggaga aggacaaaga ggagctacat aaccagctgc ttagtgttga tcccacgaga 780
gacagcaaac gaatggagca acttgttcga gaaaaaacc atttgcttca gaaattgaaa 840
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gaaaatgtcc aaagaataca ggtgaggcag ttggctgaga tgcaggctac actcagatcc 960
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tcaagcaatg aacagaatac ctgcttaatc agcaaactgc atagagctga ccgagaaatc 1080
agcacactgg ccagtgaagt gaaagagctt aaacatgcaa acaaactaga aataactgac 1140
atcaaactgg aggcagcaag agctaagagt gagctcgaaa gagaaaggaa taagatccaa 1200
a                                     1201

```

<210> 254

<211> 560

<212> DNA

<213> Homo sapiens

<400> 254

```

gaattcggca ccagtttggg ggggtgaggtt taattggaaa tgggtctctgg ggactgaaaa 60
ctgatgtttt tgcagattac ctcagggaaa cggagggttg ttgagttaca gacacattaa 120
accaaaggcc gtgggaaaac ccctctccag ctccagggga ttgggtcagga ccaccacta 180
accagtgcct tccttcttaa cattcacttt tagcagcttg tgtttathtt acatgggcag 240
ttttgatggg aaattgccat gaccacaggg gtttgaggtt ctgctttttt tttttcttct 300
tctttttcgg gggactgggg gactcctccc aagatcacat tttagcatct ttctctccta 360
ctccatttag aaaaataagt aacaggtgaa atgtggtctc agtgtaacg ggataattct 420
gctaccggct cctccctgat gattctgaaa tacactactg aacgagctct ggctggctct 480
ttctatcctg gatgtggttc ttctgtgtag caattccttg atgtccagtt tggaaagatg 540
tactcttctc aacaagaaaa                    560

```

<210> 255

<211> 612

<212> DNA

<213> Homo sapiens

<400> 255

```

gaattcggca ccaggcgggg cagcagggcc gcggccatgg ggagcttgaa ggaggagctg 60
ctcaaagcca tctggcacgc cttcaccgac tcgaccagga ccacaggga aggtctccaa 120
gtcccagctc aaggctccttt ccataacct gtgcacgggt ctgaagggtc ctcagacctc 180
agttgccctt gaagagcact tcagggatga tgatgagggg ccagtgtcca accagggcta 240
catgccttat ttaaacaggt tcatttttga aaagggtccaa gacaactttg acaagattga 300
attcaatagg atgtgtttga ccctctgtgt caaaaaaaaaa cctcacaag aatcccctgc 360
tcattacaga agaagatgca tttaaaatat gggttathtt caacttttta tctgaggaca 420
agtatccatt aattattgtg tcagaagaga ttgaatacct gcttaagaag cttacagaag 480
ctatgggagg aggttggcag caagaacaat ttgaacatta taaaatcaac tttgatgaca 540
gtaaaaatgg cttttctgca tgggaactta ttgagcttat tggaaatgga cagtttagca 600
aaggcatgga cc                    612

```

<210> 256

<211> 1132

<212> DNA

<213> Homo sapiens

<400> 256

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gaattcggca cgaggctctgg gagaggcctc tggagcagga ggcccagtg ctcttctgac 60
ccaaggcccc gccgtccagc ttctaagtgc cagatgatgg aggagcgtgc caacctgatg 120
cacatgatga aactcagcat caagggtgtt ctccagtcgg ctctgagcct gggccgcagc 180
ctggatgcgg accatgcccc cttgcagcag ttctttgtag tgatggagca ctgcctcaaa 240
catgggctga aagttaagaa gagttttatt ggccaaaata aatcattctt tggctcctttg 300
gagctgggtg agaaactttg tccagaagca tcagatatag cgactagtgt cagaaatctt 360
ccagaattaa agacagctgt gggaagaggc cgagcgtggc tttatcttgc actcatgcaa 420
aagaaactgg cagattatct gaaagtgtt atagacaata aacatctctt aagcgagttc 480
tatgagcctg aggctttaat gatggaggaa gaagggtatg tgattgttgg tctgctggtg 540
ggactcaatg ttctcgatgc caatctctgc ttgaaaggag aagacttggg ttctcaggtt 600
ggagtaatag atttttccct ctaccttaag gatgtgcagg atcttgatgg tggcaaggag 660
catgaaagaa ttactgatgt ccttgatcaa aaaaattatg tggagaact taaccggcac 720
ttgagctgca cagttgggga tcttcaaacc aagatagatg gcttggaata gactaactca 780
aagcttcaag aagagctttc agctgcaaca gaccgaattt gctcacttca agaagaacag 840
cagcagttaa gagaacaaaa tgaattaatt cgagaaagaa gtgaaaagag tgtagagata 900
acaaaacagg ataccaaagt tgagctggag acttacaagc aaactcggca aggtctggat 960
gaaatgtaca gtgatgtgtg gaagcagcta aaagaggaga agaaagtccg gttggaactg 1020
gaaaaagaac tggagttaca aattggaatg aaaaccgaaa tggaaattgc aatgaagtta 1080
ctggaaaagg acaccacaga gaagcaggac acactagttg ccctccgcca gc                    1132

```

<210> 257
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 257
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 tctgtacgtg ggggacctgc accccgacgt gaccgaggcg atgctctacg agaagttcag 120
 cccggccggg cccatcctct ccatccgggt ctgcaggac atgatcaccc gccgctcctt 180
 gggctacgcg tacgtgaact tccagcagcc ggcggacgcg gaacgtgctt tggacaccat 240
 gaattttgat gttataaagg gcaagccagt acgcatcatg tggctctcagc gtgatccatc 300
 acttcgcaaa agtggagtag gcaacatatt cattaaaaat ttggacaaat ccatcgacaa 360
 taaagcacta tatgatacgt tttctgcgtt tggtaacatc ctttcatgta aggtgggttg 420
 tgatgaaaat ggctccaagg gctatggatt tgtacacttt gaaacacagg aagcagctga 480
 aagagctatt gaaaaaatga atgggatgct tctaaatga 519

<210> 258
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 258
 gctttgccaa agacttagaa gctaagcaga aaatgagctt aacatcctgg tttttggtga 60
 gcagtggagg cactcgccac aggctgccac gagaaatgat ttttggttga agagatgact 120
 gtgagctcat gttgcagtct cgtagtgtgg ataagcaaca cgctgtcatc aactatgatg 180
 cgtctacgga tgagcattta gtgaaggatt tgggcagcct caatgggact tttgtgaatg 240
 atgtaaggat tccggaacag acttatatca ccttgaaact tgaagataag ctgagatttg 300
 gatattgatac aaatcttttc actgtagtac aaggagaaat gaggggtccct gaagaagctc 360
 ttaagcatga gaagtttacc attcagcttc agttgtccca aaaatcttca gaatcagaat 420
 tatccaaatc tgcaagtgcc aaaagcatag attcaaagggt agcagacgct gctactgaag 480
 tgcagcaciaa aactactgaa gcaactgaaat ccgaggaaaa agccatggat atttctgcta 540
 tgccccgtgg tactccatta tatgggcagc cgtcatgggtg gggggatgat gaggtg 596

<210> 259
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 259
 gaattcggca ccagagaaaa agcttcaagg tatattgagt cagagtcaag ataaatcact 60
 tcggagaatt tcagaattaa gagaggagct gcaaatggac cagcaagcaa agaaacatct 120
 tcaggacgag tttgatgcat gtttggagga gaaagatcag tatatcagtg ttctccagac 180
 tcagggtttct cttctaaagc agcgattaca gaatggccca atgaatgttg atgctcccaa 240
 acccctccct cccggggagc tccaggcaga agtgcacggt gacacggaga agatggaggg 300
 cgtcggggaa ccagtgggag gtgggacttc cgctaaaacc ctggaaatgc tccagcaaag 360
 agtgaaacgt caggagaatc tgcttcagcg ctgtaaggag acaattgggt cccacaagga 420
 gcagtgcgca ctgctgctga gtgagaagga ggcactgcag gagcagtttg atgaaaggct 480
 gcaggagctg gaaaagatga aggggatgggt aataaccgag acgaagcggc aaatgcttga 540
 gaccctggaa ctgaaagaag atgaaattgc tcagcttcgt agtcatatca aacag 595

<210> 260
 <211> 994
 <212> DNA

<213> Homo sapiens

<400> 260

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gaattcggca cgaggcggtg cctgccttct tgctgtctat cagcctttct tgcctcttcc 60
ttttcgcctt ccctgttctt ccctttctca aacaaacaag acatggcaaa ccgcagtcta 120
acccagccct ttgaaattat ccatagtttt acagacagct ccaggccatg agccacaatg 180
tccaaaatta ttcttgagca ctgatataaa ttacttagac cttctttgag ggcagaactc 240
agctgttgct ctcatgatgg gcagtgtctg aaagggttct ggtatgtctt caaatgagt 300
ccacgagttt actgagtgtc tacaggtaaa ggaatgaata taagatgtct ttctgatcag 360
aacagggtgc cttcacatg agctttacta gactctggga gggaaaagta gccaagtact 420
tctgaaccat tttttaatac ttgttttgct atggtgaaat tatagcagtt atcccaaat 480
gttttaatta tcaaaatact gtcttttaaa aaaaaaaaaa agtaacacct tttaaagcat 540
tagatttcac ttgggtttct tttccaaaaa atgctaggta gacaaggcat tgtaaacadg 600
agtttccttt aagaaccatc agaataataa ttttaacatga agaaaactgc tatacttagt 660
agaaataata tctaaagttt aacaactaaa gtaccctcac agaataagcaa atacccttct 720
gttctggaca tgggttcaaa tttgaatatg gaaataattt ccttggaagt ccctagaggc 780
aggtcagagg aagtatgcat taagagggaa aggagagaat ggaaataaaa gtcactataa 840
tgcagattta tgccttattt ttttagcattt tttaaatggt gggcttttca aggtgttttt 900
tgctttttat tagatctata taaataagtt aactagcaat ttagttttgt atttaagcta 960
cacttaatct ttttctttgg tgatatttat ttct 994

```

<210> 261

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (538)

<223> n=A,T,C or G

<400> 261

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gaattcggca ccagtggaga tccagctgaa ccatgccaac cgccaggctg cggaggcaat 60
caggaacctt cggaacaccc agggaaatgct gaaggacaca cagctgcacc tggacgatgc 120
tctcagaggc caggacgacc tgaaagagca gctggccatg gttgagcgca gagccaacct 180
gatgcaggct gagatcgagg agctcagggc atccctggaa cagacagaga ggagcaggag 240
agtggccgag caagagctac tggatgccag tgagcgctg cagctcctcc acaccagaa 300
caccagcctc atcaacacca agaagaagct ggagacagac atttcccaa tccagggaga 360
gatggaagac atcgtccagg aagcccga cgcagaagag aaggccaaga aagccatcac 420
tgatgccgcc atgatggcgg aggagctgaa gaaggagcag gacaccagcg cccacctgga 480
gcggatgaag aagaacatgg agcagaccgt gaaggacctg cagcaccgtc tggacgangc 540
tgagcagctt ggcgctgaag ggcgggcaag aagcagatcc agaaactgga ggct 594

```

<210> 262

<211> 594

<212> DNA

<213> Homo sapiens

<400> 262

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gaaaagggtg ctggagccaa aggcatagtc agggttaatg ctcttttttc tttatcccaa 60
atcagatagt gttaggctt tttcatcaaa tataaaaacc cagcccagtt catggctcat 120
tcggcagcaa ccctgagacg ctttacagct ctagacccta aaagggtcaaa aggcctctt 180
atgctcaata tacattttat tacccaatct gccccggaca ttaaataaaa ctccaaaaat 240
taaataccggc cctcaaacc cacaacagga cttaattgac ctacacctca aggtgtagaa 300

```

```

taataaaaaa aaaaagttgc aattccttgc ctccgctgtg agacaaaccc cagccacatc 360
tccagcacac aagaacttcc aaacgcctga accacagcag ccaggcgttc ctccagaacc 420
tcctcccca ggagcttgct acatgtgccg gaaatctggc cactaggcca aggaatgcct 480
gcagccccgg attcctccta agccgtgtcc catctgtgcg ggacccact gaaaatcgga 540
ctgttcaact cacctggcag ccactctcag agaccctgga actctggccc aagg 594

```

```

<210> 263
<211> 506
<212> DNA
<213> Homo sapiens

```

```

<400> 263
gaattcggca cgagcggaaa cttagggggcc acgtgagcca cggccacggc cgcataaggca 60
agcaccggaa gcaccccggc ggccgcggta atgctggtgg tctgcatcac caccggatca 120
acttcgacaa ataccacca ggctactttg ggaaagttgg tatgaagcat taccacttaa 180
agaggaacca gagcttctgc ccaactgtca accttgacaa attgtggact ttggtcagtg 240
aacagacacg ggtgaatgct gctaaaaaca agactggggc tgctcccatc attgatgtgg 300
tgcgatcggg ctactataaa gttctgggaa agggaaagct ccaaagcag cctgtcatcg 360
tgaaggccaa attcttcagc agaagagctg aggagaagat taagagtgtt gggggggcct 420
gtgtcctggg ggcttgaagc cacatggagg gagtttcatt aaatgctaac tacttttta 480
aaaaaaaaa aaaaaaaaaa ctcgag 506

```

```

<210> 264
<211> 600
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (32)
<223> n=A,T,C or G

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```

<400> 264
ggctcgtgaa cacacactga cagctatagg gnaggcggcg gcaccgtccc cgcttcccct 60
cggcggcggg gtgtcccgtc ggccggccctg aagtgaccca taaacatgtc ttgtgagagg 120
aaaggcctct cggagctgcg atcggagctc tacttcctca tcgcccggtt cctggaagat 180
ggaccctgtc agcaggcggc tcaggtgctg atccgcgagg tggccgagaa ggagctgctg 240
ccccggcgca ccgactggac cgggaaggag catcccagga cctaccagaa tctggtgaag 300
tattacagac acttagcacc tgatcacttg ctgcaaatat gtcacgact aggacctct 360
cttgaacaag aaattcctca aagtgttcct ggagtacaaa ctttattagg agctggaaga 420
cagtctttac tacgcacaaa taaaagctgc aagcatgttg tgtggaaagg atctgctctg 480
gctgcgttgc actgtggaag accacctgag tcaccagtta actatggtag cccaccagc 540
attgcggata ctctgttttc aaggaagctg aatgggaaat acagacttga gcgacttgtt 600

```

```

<210> 265
<211> 534
<212> DNA
<213> Homo sapiens

```

```

<400> 265
gaattcggca cgagtgagga gcccatcatg gcgacgcccc ctaagcggcg ggcggtggag 60
gccacggggg agaaagtgtc gcgctacgag accttcatca gtgacgtgct gcagcgggac 120
ttgcgaaagg tgctggacca tcgagacaag gtatatgagc agctggccaa ataccttcaa 180
ctgagaaatg tcattgagcg actccaggaa gctaagcact cggagttata tatgcaggtg 240

```



```

gatttgggct gtaacttctt cgttgacaca gtgggtcccag atacttcacg catctatgtg 300
gccctgggat atgggtttttt cctggagttg acactggcag aagctctcaa gttcattgat 360
cgtaagagct ctctcctcac agagctcagc aacagcctca ccaaggactc catgaatatc 420
aaagcccata tccacatgtt gctagagggg cttagagaac tacaaggcct gcagaatttc 480
ccagagaagc ctcaccattg acttcttccc cccatcctca gacattaaag agcc 534

```

<210> 266
 <211> 552
 <212> DNA
 <213> Homo sapiens

```

<400> 266
gaattcggca ccagggcacc tccgcctcgc cgccgctagg tgggccggct ccgcccggct 60
gccgcctagg atgaatatca tggacttcaa cgtgaagaag ctggcggccg acgcaggcac 120
cttcctcagt cgcgccgtgc agttcacaga agaaaagctt ggccaggctg agaagacaga 180
attggatgct cacttagaga acctccttag caaagctgaa tgtaccaaaa tatggacaga 240
aaaaataatg aaacaaactg aagtgttatt gcagccaaat ccaaagtcca ggatagaaga 300
atattgtttat gagaaactgg atagaaaagc tccaagtcgt ataaacaacc cagaactttt 360
gggacaatat atgattgatg cagggactga gtttggccca ggaacagctt atggtaatgc 420
ccttattaaa tgtggagaaa cccaaaaaag aattggaaca gcagacagag aactgattca 480
aacgtcagcc ttaaattttc ttactccttt aagaaacttt atagaaggag attacaaaac 540
aattgctaaa ga 552

```

<210> 267
 <211> 551
 <212> DNA
 <213> Homo sapiens

```

<400> 267
gaagcctacc agccagggtgc cggccccccc acccccggcc cagccccctc ctgcagcggt 60
ggaagcggct cggcagatcg agcgtgaggg ccagcagcag cagcacctgt accgggtgaa 120
catcaacaac agcatgcccc caggacgcac gggcatgggg accccgggga gccagatggc 180
ccccgtgagc ctgaatgtgc cccgacccaa ccagggtgagc gggcccgtca tgcccagcat 240
gcctcccggg cagtggcagc aggcgccccct tccccagcag cagcccatgc caggcttgcc 300
caggcctgtg atatccatgc aggccagggc ggccgtggct gggcccggga tgcccagcgt 360
gcagccaccc aggagcatct caccagcgc tctgcaagac ctgctgcgga ccctgaagtc 420
gccagctcc cctcagcagc aacagcaggt gctgaacatt ctcaaatcaa acccgagct 480
aatggcagct ttcacaaac agcgcacagc caagtacgtg gccaatcagc ccggcatgca 540
gccccagcct g 551

```

<210> 268
 <211> 573
 <212> DNA
 <213> Homo sapiens

```

<400> 268
gaattcggca ccaggggttcc ttgtgggcta gaagaatcct gcaaaaatgt ctctctatcc 60
atctctcgaa gacttgaagg tagacaaagt aattcaggct caaactgctt tttctgcaaa 120
ccctgccaat ccagcaattt tgtcagaagc ttctgctcct atccctcacg atggaaatct 180
ctatcccaga ctgtatccag agctctctca atacatgggg ctgagtttaa atgaagaaga 240
aatacgtgca aatgtggccg tggtttctgg tgcaccactt caggggcagt tggtagcaag 300
accttccagt ataaactata tgggtggctcc tgtaactggt aatgatgttg gaattcgtag 360
agcagaaatt aagcaaggga ttcgtgaagt catttttgtt aaggatcaag atggaaaaat 420
tggactcagg cttaaataca tagataatgg tatatttgtt cagctagtcc aggctaattc 480

```

tccagcctca ttggttggtc tgagatttgg ggaccaagta cttcagatca atggtgaaaa 540
ctgtgcagga tggagctctg ataaagcgca caa 573

<210> 269
<211> 500
<212> DNA
<213> Homo sapiens

<400> 269
gaatcggcac caggaaacct ttattagcag agatagctgg cttggatcag attacgggga 60
atgtggggga gccatgaaga aactaactaa aggggagcct ttggggacca gggggagaca 120
agtcactatt ttgagggaga aagctctgga ttgattctga caggacactt gagtgtgaac 180
tgtccaagct aagcctctgg gtgtgtagag agagccctta cagatagata gcacctttgc 240
tttcagagtg gaaggactag ccactaagga ccagaccaag atgcatgtag gtcactgaca 300
agcacctgat gaagaggagg ggtctcctcc aagtttgtgt ttggaactcc tcctgtgttc 360
aatttcctaa aagccataat ccagcaagct gaactcatga gaaggctctgc ttcattgttga 420
gcatggaaga cagaacacag acggaaactg cagtgatggt gtgaagacac cacggatagg 480
ttaggggcag tgaggaggaa 500

<210> 270
<211> 224
<212> DNA
<213> Homo sapiens

<400> 270
gaattcggca cgagaagact acaatctcca gggaaacctg gggcgtctcg cgcaaactgc 60
cataactgaa agtagctaag gcacccacgc cggaggaagt gagctctcct ggggcgtggt 120
tgttcgtgat ccttgcatct gttacttagg gtcaaggctt gggctcttgc cgcagaccc 180
ttgggacgac ccggccccag cgcagctatg aacctggagc gagt 224

<210> 271
<211> 447
<212> DNA
<213> Homo sapiens

<400> 271
gaattcggca cgaggctggg ccgggcccga gcggatcgcg ggctcgggct gcggggctcc 60
ggctgcgggc gctgggccgc gaggcgcgga gcttgggagc ggagcccagg ccgtgccgcg 120
cggcgccatg aagggaagga aggagaagga gggcggcgca cggctgggag ctggcgggcg 180
aagccccgag aagagcccga gcgcgcagga gctcaaggag cagggcaatc gtctgttcgt 240
gggccgaaag taccgggagg cggcggcctg ctacggccgc gcgatcacc ggaacccgct 300
ggtggccgtg tattacacca accgggcctt gtgctacctg aagatgcagc agcacgagca 360
ggccttgcc gactgccggc gcgccttgga gctggacggg cagtctgtga aggcgcactt 420
cttcctgggg cagtgccagc tggagat 447

<210> 272
<211> 606
<212> DNA
<213> Homo sapiens

<400> 272
gcaactactt atattccttt gatggataat gctgactcaa gtctgtggt agataagaga 60
gaggttattg atttgcttaa acctgaccaa gtagaaggga tccagaaatc tgggactaaa 120
aaactgaaga ccgaaactga caaagaaaat gctgaagtga agtttaaaga ttttcttctg 180

```

tccttgaaga ctatgatgtt ttctgaagat gaggctcttt gtgttgtaga cttgctaaag 240
gagaagtctg gtgtaataca agatgcttta aagaagtcaa gtaagggaga attgactacg 300
cttatacatc agcttcaaga aaaggacaag ttactcgctg ctgtgaagga agatgctgct 360
gctacaaagg atcgggtgtaa gcagttaacc caggaaatga tgacagagaa agaaagaagc 420
aatgtgggta taacaaggat gaaagatcga attggaacat tagaaaagga acataatgta 480
tttcaaaaca aaatacatgt cagttatcaa gagactcaac agatgcagat gaagtttcag 540
caagttcgtg agcagatgga ggcagagata gctcacttga agcaggaaaa tgggtatact 600
ggagaa 606

```

<210> 273
 <211> 598
 <212> DNA
 <213> Homo sapiens

```

<400> 273
gaattcggca ccaggcccgg tccgcgggtc gcagctccag ccgcctcctc cgcgcagccg 60
ccgcctcagc tgctcgctct gtgggtcggg cctctccggc acttgggctc cagtcgcgcc 120
ctccaagccc ttcaggccgc ccagtggtcc tcctccttct ccggccagac ccagccccgc 180
gaagatggtg gaccgcgagc aactggtgca gaaagcccgg ctggccgagc aggcggagcg 240
ctacgacgac atggccgcgg ccatgaagaa cgtgacagag ctgaatgagc cactgtcgaa 300
tgaggaacga aaccttctgt ctgtggccta caagaacgtt gtgggggcac gccgctcttc 360
ctggaggggtc atcagtagca ttgagcagaa gacatctgca gacggcaatg agaagaagat 420
tgagatggtc cgtgcgtacc gggagaagat agagaaggag ttggaggctg tgtgccagga 480
tgtgctgagc ctgctggata actacctgat caagaattgc agcgagaccc agtacgagag 540
caaagtgttc tacctgaaga tgaaagggga ctactaccgc tacctggctg aagtggcc 598

```

<210> 274
 <211> 536
 <212> DNA
 <213> Homo sapiens

```

<400> 274
gcaccaagag actaaacaag aaagtggatc agggaagaag aaagcttcat caaagaaaca 60
aaagacagaa aatgtcttcg tagatgaacc ccttattcat gcaactactt atattccttt 120
gatggataat gctgactcaa gtccgtgtgt agataagaga gaggttattg atttgcttaa 180
acctgaccaa gtagaaggga tccagaaatc tgggactaaa aaactgaaga ccgaaactga 240
caaagaaaat gctgaagtga agtttaaaaga ttttcttctg tccttgaaga ctatgatgtt 300
ttctgaagat gaggctcttt gtgttgtaga cttgctaaag gagaagtctg gtgtaataca 360
agatgcttta aagaagtcaa gtaagggaga attgactacg cttatacatc agcttcaaga 420
aaaggacaag ttactcgctg ctgtgaagga agatgctgct gctacaaagg atcgggtgtaa 480
gcagttaacc caggaaatga tgacagagaa agaaagaagc aatgtgggta taacaa 536

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<210> 275
 <211> 494
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (379)
 <223> n=A,T,C or G

```

<400> 275
gaattcggca ccagggtcgc ggttcttgtt tgtggatcgc tgtgatcgtc acttgacaat 60

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gcagatcttc gtgaagactc tgactggtaa gaccatcacc ctcgagggtg agcccagtga 120
caccatcgag aatgtcaagg caaagatcca agataaggaa ggcatccctc ctgaccagca 180
gaggctgata tttgctggaa aacagctgga agatggggcg accctgtctg actacaacat 240
ccagaaagag tccaccctgc acctggtgct ccgtctcaga ggtgggatgc aaatcttcgt 300
gaagacactc actggcaaga ccatcacctc tgaggtggag cccagtgaca ccatcgagaa 360
cgtcaaagca aagatccang acaaggaagg cattcctcct gaccagcaga ggttgatctt 420
tgccggaaag cagctggaag atggggcgac cctgtctgac tacaacatcc agaaagagtc 480
taccctgcac ctgg 494

```

```

<210> 276
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 276
ggcttttaac cagaagtcaa acctgttcag acagaaggca gtcacagcag aaaaatcttc 60
agacaaaagg cagtcacagg tgtgcaggga gtgtggggcg ggcttttagca ggaagtcaca 120
gctcatcata caccagagga cacacacagg agaaaagcct tatgtctgcg gagagtgtgg 180
gcgaggcttt atagttgagt cagtcctccg caaccacctg agtacacact ccggggagaa 240
accttatgtg tgcagccatt gtggggcgagg ctttagctgc aagccatacc tcatcagaca 300
tcagaggaca cacacaaggg agaaatcggt tatgtgcaca gtgtgtgggc gaggcttttcg 360
tgaaaagtca gagctcatta agcaccagag aattcacacg ggggataagc cttatgtgtg 420
cagagattga ggccgaggct ttgtaaagga gatcatgtct caacacacac cagaggatta 480
catt 484

```

```

<210> 277
<211> 513
<212> DNA
<213> Homo sapiens

```

```

<400> 277
gcttgaggct gccaatcaga gcttggcaga gctgagagat cagcggcagg gggagcgcct 60
ggaacatgca gcagctttgc gggccctaca agatcaggta tccatccaga gtgcagatgc 120
acaggaacaa gtggaagggc ttttggtgta gaacaatgcc ttgaggacta gcctggctgc 180
cctggagcag atccaaacag caaagaccca agaactgaat atgctccggg aacagaccac 240
tgggctggca gctgagttgc agcagcagca ggctgagtag gaggacctta tgggacagaa 300
agatgacctc aactcccagc tccaggagtc attacggggc aatagtcgac tgctggaaca 360
acttcaagaa atagggcgagg agaaggagca gttgacccag gaattacagg aggctcggaa 420
gagtgcggag aagcgggaagg ccatgcttgg atgagctagc aatggaaacg ctgcaagaga 480
agtcccacac aaggaagagc ttgggagcag ttc 513

```

```

<210> 278
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<400> 278
gaattcggca ccagccaagg ccctgtccct ggctcggggc cttgaagagg ccttggaagc 60
caaagaggaa ctcgagcggg ccaacaaaat gctcaaagcc gaaatggaag acctgggtcag 120
ctccaaggat gacgtgggca agaacgtcca tgagctggag aagtccaagc gggccctgga 180
gacccagatg gaggagatga agacgcagct ggaagagctg gaggacgagc tgcaagccac 240
ggaggacgcc aaactgcggc tgggaagtcaa catgcaggcg ctcaagggcc agttcgaaag 300
ggatctccaa gcccgggacg agcagaatga ggagaagagg aggcaactgc agagacagct 360
tcacgagtat gagacggaac tgggaagacga gcgaaagcaa cgtgccctgg cagctgcagc 420

```

aaagaagaag ctggaagggg acctgaaaga cctggagctt caggccgact t

471

<210> 279
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (457)
 <223> n=A,T,C or G
 <221> misc_feature
 <222> (471)
 <223> n=A,T,C or G

<400> 279
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 ctacctgagt ccagctgtcc ccttttctgg gactattcaa ggaggtctcc aggacggact 120
 tcagatcact gtcaatggga ccgttctcag ctccagtgga accaggtttg ctgtgaactt 180
 tcagactggc ttcagtggaa atgacattgc cttccacttc aaccctcggg ttgaagatgg 240
 aggggtacgtg gtgtgcaaca cgaggcagaa cggaagctgg gggcccagg agaggaagac 300
 acacatgcct ttccagaagg ggatgccctt tgacctctgc ttcctgggtgc agagctcaga 360
 tttcaagggtg atgggtgaacg ggatcctctt cgtgcagtac ttccaccgcg tgcctttcca 420
 ccgtgtggac accatctccg tcaatggctc tgtgcantctg tcctacatca ncttccagac 480
 ccagacagtc atccaca 497

<210> 280
 <211> 544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (451)
 <223> n=A,T,C or G

<400> 280
 gaattcggca ccagaatagg aacagctccg gtctacagct cccagcgtga ggcacgcaga 60
 agacgggtga tttctgcatt tccatctgag gtaccgggtt catctcacta gggagtgcc 120
 gacagtgggc gcaggccagt gtgtgtgcgc accgtgcgcg agccgaagca gggcgaggca 180
 ttgcctcacc tgggaagcac aaggggtcag ggagttccct ttccgagtca aagaaagggg 240
 tgacggacgc acctggaaaa tcgggtcact cccacccgaa tattgtgctt ttcagaccgg 300
 cttaagaaac ggcgaccac gagactatat cccacacctg gctcagaggg tcctacgccc 360
 acggaatctc gctgattgct agcacagcag tcttagatca aactgcaagg ggggcaacga 420
 ggctggggga ggggcgcccg ccattgccc ngttgctta ggtaaacaaa gcagccggga 480
 agcttgaact ggggtggagcc caccacagct caaggaggcc tgccctgcctc tgtagctcca 540
 cctc 544

<210> 281
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (456)
 <223> n=A,T,C or G

<400> 281
 gaattcggca cgaggcctcg ctcagctcca acatggcaaa aatctccagc cctacagaga 60
 ctgagcgggtg catcgagtcc ctgattgctg tcttccagaa gtatgctgga aaggatgggt 120
 ataactacac tctctccaag acagagttcc taagcttcat gaatacagaa ctagctgcct 180
 tcacaaagaa ccagaaggac cctgggtgtcc ttgaccgcat gatgaagaaa ctggacacca 240
 acagtgatgg tcagctagat ttctcagaat ttcttaatat gattgggtggc ctagctatgg 300
 cttgccatga ctccttcctc aaggctgtcc cttcccagaa gcggacctga ggaccccttg 360
 gccctggcct tcaaaccacac cccctttcct tccagccttt ctgtcatcat ctccacagcc 420
 caccatccc ctgagcacac taaccacctc atgcanggcc cccctgccaa tagtaataaa 480
 gcaatgtcct tttttaaaac atgaaaaaaa aaaaaaaaaa actcgag 527

<210> 282
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (494)
 <223> n=A,T,C or G

<400> 282
 ggaagactgg agcctttgcg gcggcgctgc cctcccctg gtccccgcga gctcggaggg 60
 cccggctggg gctgcggggg ccccgaggag ttgaaaacta agcatgggga agagctgcaa 120
 ggtggtcgtg tgtggccagg cgtctgtggg caaaacttca atcctggagc agcttctgta 180
 tgggaaccat gtagtgggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240
 cattgagaca gaccgggggg tgccagagca ggtgcgtttc tatgacaccc gggggctccg 300
 agatggggcc gaactgcccc gacactgctt ctcttgact gatggctacg tcctgggtcta 360
 tagcacagat agcagagagt cttttcagcg tgtggagctg ctcaagaagg agattgacaa 420
 atccaaggac aagaaggagg tcaccatcgt ggtccttggc aacaagtgtg acttacagga 480
 gcagcggcgt gtanacccaa atgtggctca acac 514

<210> 283
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 283
 gggcgggagg tggacagtca tggcggcccc gcgcgggggt ctcatagtgc tggagggcgt 60
 ggaccgcgcc gggaagagca cgcagagccg caagctgggt gaagcgtgtg gcgccgcggg 120
 ccaccgcgcc gaactgctcc ggttcccggg aagatcaact gaaatcggca aacttctgag 180
 ttcctacttg caaaagaaaa gtgacgtgga ggatcactcg gtgcacctgc ttttttctgc 240
 aaatcgctgg gaacaagtgc cgttaattaa ggaaaagtgg agccagggcg tgacctcgt 300
 cgtggacaga tacgcatttt ctggtgtggc cttcaccggg gccaaaggaga atttttccct 360
 agactgggtg aaacagccag acgtgggcct tcccaaacc gacctgggtc tgttcctcca 420
 gttacagctg gcggatgctg ccaagcgggg agcgtttggc catgagcgt atgagaacgg 480
 ggct 484

<210> 284
 <211> 514

<212> DNA
<213> Homo sapiens

<400> 284
gaattcggca cgaggcggag gccgcggagg ctccctcggtc cttcagcacc cctcggccccg 60
acgcacccac gccctcacc ccccgagagc cgaaaatgga cccaagtggg gtcaaagtgc 120
tggaacagc agaggacatc caggagaggc ggcagcaggt cctagaccga taccaccgct 180
tcaaggaact ctcaaccctt aggcgtcaga agctggaaga ttcctatcga ttccagttct 240
ttcaaagaga tgctgaagag ctggagaaat ggatacagga aaaacttcag attgcatctg 300
atgagaatta taaagaccca accaacttgc agggaaagct tcagaagcat caagcatttg 360
aagctgaagt gcaggccaac tcaggagcca ttgttaagct ggatgaaact ggaaacctga 420
tgatctcaga agggcatttt gcattctgaa ccatacggac ccgtttgatg gagctgcacc 480
gccagtggga attacttttg gagaagatgc gaga 514

<210> 285
<211> 383
<212> DNA
<213> Homo sapiens

<400> 285
gaattcggca cgaggccggg ctccaccgcg catcctgctc cactctggcg accgcccccg 60
gggccccgc cgcgggcgcg gcgcccgcga tgggcgagga ggactactat ctggagctgt 120
gcgagcggcc ggtgcagttc gagaaggcga accctgtcaa ctgcgtcttc ttgatgagg 180
ccaacaagca ggtttttgct gttcgatctg gtggagctac tggcgtggta gttaaaggcc 240
cagatgatag gaatcccatc tcatttagaa tggatgacaa aggagaagtg aagtgcatta 300
agttttcctt agaaaataag atattggctg ttcagaggac ctcaaagact gtggattttt 360
gtaattttat ccctgataat tcc 383

<210> 286
<211> 943
<212> DNA
<213> Homo sapiens

<400> 286
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ctcacctacg cggagttcgt gcagcagtac gtgcgcccct gatcgcgag gtcgcgtcct 120
gttcaccggc ccgtctgccc cgaccgccc aaggccgctt cccctgacct cgcgcgcacg 180
cgtggggctg gggcggcgag gctggcggtc cggcctggcc gcgactctgc ccttctttcc 240
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tctctctttc ggcactactc cccaccccca tttggcctgc tgggaaccgc tccagcttac 600
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tcagaagtga tctacggtcg taagcgctgg ttcctttacc cacctgagaa gacgccagag 720
ttccacccca acaagaccac actggcctgg ctccgggaca cataccagc cctgccaccg 780
tctgcacggc ccctggagtg taccatccgg gctgggtgagg tgctgtactt ccccgaccgc 840
tggtggcatg ctacgctcaa ccttgacacc agcgtcttca tctccacctt cctcggctag 900
ccaaaacagc tggcaggact gccggtcaca caccagcacg tcc 943

<210> 287
<211> 1143
<212> DNA

<213> Homo sapiens

<400> 287

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gaattcggca cgagggaaga acagctgttg gaacaacaag aatattttaga aaaagaaatg 60
gaggaagcaa agaaaatgat atcaggacta caggccttac tgctcaatgg atccttacct 120
gaagatgaac aggagaggcc cttggccctc tgtgaaccag gtgtcaatcc cgaggaacaa 180
ctgattataa tccaaagtcg tctggatcag agtatggagg agaatcagga cttaaagaag 240
gaactgctga aatgtaaaca agaagccaga aacttacagg ggataaagga tgccttgca 300
cagagattga ctgagcagga cacatctgtt cttcagctca aacaagagct actgagggca 360
aatatggaca aagatgagct gcacaaccag aatgtggatc tgcagaggaa gctagatgag 420
aggaaccggc tcttgggaga atataaaaaa gagctggggc agaaggatcg ccttcttcag 480
cagcaccagg ccaagttaga agaagcactc cggaaactct ctgatgtcag ttaccaccag 540
gtggatctag agcgagagct agaacacaaa gatgtcctct tggctcactg tatgaaaaga 600
gaggcagatg aggcgaccaa ctacaacagt cacaactctc aaagcaatgg ttttctcctt 660
ccaacggcag gaaaaggagc tacttcagtc agcaacagag ggaccagcga cctgcagctt 720
gttcgagatg ctctccgcag cctgcgcaac agcttcagtg gccacgatcc tcagcaccac 780
actattgaca gcttggagca gggcatttct agcctcatgg agcgcctgca tgttatggag 840
acgcagaaga aacaagaaag aaaggttcgg gtcaagtcac ccagaactca agtaggtagt 900
gaataccggg agtcctggcc ccctaactca aagttgcctc actcacagag ctctccaact 960
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gtcaatatat caaagagggt ggaggagggt acgttaaagg attttaagc agctattgat 1080
cggaaggaa atcaccggta tcacttcaaa gcactggatc ctgagtttgg cactgtcaaa 1140
gag 1143

```

<210> 288

<211> 881

<212> DNA

<213> Homo sapiens

<400> 288

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gtgagagcgg gccgaggaga ttggcgacgg tgtcgcccggt gttttcgttg ggggtgcct 60
gggctggtgg gaacagccgc ccgaaggaag caccatgatt tcggccgcgc agttgttgga 120
tgagttaatg ggccgggacc gaaacctagc cccggacgag aagcgcagca acgtgcggtg 180
ggaccacgag agcgtttgta aatattatct ctgtggtttt tgcctgcgg aattgttcac 240
aaatacacgt tctgatcttg gtccgtgtga aaaaattcat gatgaaaatc tacgaaaaca 300
gtatgagaag agctctcggt tcatgaaagt tggctatgag agagattttt tgcgatactt 360
acagagctta cttgcagaag tagaacgtag gatcagacga ggccatgctc gtttggcatt 420
atctcaaaac cagcagtcct ctggggccgc tggcccaaca ggcaaaaatg aagaaaaaat 480
tcaggttcta acagacaaaa ttgatgtact tctgcaacag attgaagaat tagggtctga 540
aggaaaagta gaagaagccc aggggatgat gaaattagtt gagcaattaa aagaagagag 600
agaactgcta aggtccacaa cgctcgacaat tgaaagcttt gctgcacaag aaaaacaaat 660
ggaagtttgt gaagtatgtg gagccttttt aatagtagga gatgccagc cccgggtaga 720
tgaccatttg atgggaaaac aacacatggg ctatgccaaa attaaagcta ctgtagaaga 780
attaaaagaa aagttaagga aaagaaccga agaacctgat cgtgatgagc gtctaaaaaa 840
ggagaagcaa gaaagagaaa aaaaaaaaaa aaaaactcga g 881

```

<210> 289

<211> 987

<212> DNA

<213> Homo sapiens

<400> 289

```

gaattcggca cgagggactg tggtttccag gaatggtggc gtctcacgct tcttgtgctt 60
tttcttttgg ggcctccgag cggctggggg tgggggactg ggcaggaggc tccctgtaaa 120

```

```

catttgact tgggctgggg caggggctgg tgttgggcaa agctgggggt ccaggctgga 180
gaagcagggg cccctccaga cgcagccttg ggagactcag catgtgcccc cctccccctca 240
tcacagaaca agacaatggt taaaaaccag aacagatgcc cagaaggggg taccatggcc 300
attaccagca tctcagacaa gggcaggctt caaacaggga ggcctgtggc aaccctccc 360
ctacgtctgg agctgagggg acagggggag ctgagaacaa agagaggaaa gaggagaaaa 420
gcgggcgggg aacaggcggg gagcgtgatc ttcttgcccc catcttcctc aggggttggg 480
gggtacaaag tcggcggttg cccatcccgc caggccccgc tgccccctcag aagaggccgc 540
agtccttcag gttgttcttg atgatgacat cggtgacggc gtcaaacacg aactgcacgt 600
tcttggtgtc ggtggcgcac gtgaagtgcg tgtagatctc cttggtgtct ttgcgcttat 660
tcaggtcctc aaacttactc tggatgtagc tggctgcctc atcatatttg ttggccccctg 720
tatactcagg gaagcagatg gtcaggggac tgtgtgtgat cttctcctca aacaggtcct 780
tcttgttgag gaagaggatg atggacgtgt ctgtgaacca cttgttggtg cagatgctat 840
cgaatagctt catgctctca tgcattcggt tcatctctc gtcctcagct agcaccaagt 900
cataggcgct caaggctacg cagaagatga tggctgtgac gccctcaaag cagtggatcc 960
acttcttccg ctacagaccg tgaccac 987

```

```

<210> 290
<211> 300
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 290
gattcaagat gtacccatt gactttgaga aggatgatga cagcaacttt catatggatt 60
tcatcgtggc tgcattcaac ctccgggcag aaaactatga cattccttct gcagaccggc 120
acaagagcaa gctgattgca gggaagatca tcccagccat tgccacgacc acagcagccg 180
tggttggcct tgtgtgtctg gagctgtaca aggttgtgca ggggcaccga cancttgact 240
cctacangaa tgggtgcctc aacttgagcc ctgcctttct ttggtttctc tgaaccctt 300

```

```

<210> 291
<211> 352
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 291
aaccaagctg ccaccggggg tggatcggat gcggcttgag aggcattctgt ctgccgagga 60
cttctcaagg gtatttgcca tgtcccctga agagtttggc aagctggctc tgtggaagcg 120
gaatgagctc aagaagaagg cctctctctt ctgatggccc ccacctgctc cgggacggcc 180
cccttaccce tgetgcttca gggtttttcc ccggcggtt gggaggggca ggaggtgggg 240
tggaatngg gtgggncct ttcctcaggt agagnggggg gccaaaacct ctgcngtccc 300
cggagngagc tatggacttt cttccccctc acaaggntgg gggcctcctg ct 352

```

```

<210> 292
<211> 511

```

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

<400> 292

cgcggtggct	gcgactcng	cctgagaaac	tcggcaagcg	cgcagtgtcg	actccccggt	60
ctatgccagg	cgcatctcag	ctaataccaaa	agtaaatagag	aaacttagaa	aaagattgcc	120
aattccaaat	caacataatt	agagaaaatt	ggaaaaggag	aagcttacta	cagctttatt	180
tgaggacttt	ttaaagaacg	ctgggttcta	tctgtgagct	gcaaactctg	gagcaaaaac	240
cagagacatt	gccagagcaa	acaagaacag	aaatacaaat	ggagaactgg	tcaaaagaca	300
taaccacag	ttatcttgaa	caagaaacta	cggggataaa	taaaagtacg	canccagatg	360
agcaactgac	tatgaattct	gagaaaagta	tgcactcgga	atccactgaa	ttagntaatg	420
aaataacatg	ngagaacaca	gaatggccag	gggcagagat	caacgaattt	tcanatcatc	480
agttcttata	cagatgatga	gtctgtttac	t			511

<210> 293
<211> 526
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

<400> 293

gataaaaaga	actttaatgg	aaggcactgt	tgtccaaaat	cacataaagg	gtaagagccc	60
acacggtacc	accctgctct	cctacttctc	aaaccacat	ccaccacca	gacaggagg	120
tgcanacccc	acaggaaatt	acctcccgga	gcaactgactg	atatttttcc	ttaaaacaaa	180
aaaatggctg	tctcagacta	ataacagAAC	atcttaagag	ctataccagc	tattacagcc	240
tggtaatana	agcagctttc	taanaattcc	caagtttata	anaggcccaa	naaatgcatt	300
tattctgttg	tctattaagc	ctccatgaca	aggagaaagt	tatgagtaaa	tccttggttc	360
atcaggagtt	aagagctgtg	ngcctcatga	ggagttaana	gctgtgtgca	taagcagggt	420
caagaaacaa	actcctgttt	gtttgcctct	ttgatgggtc	aaaaacattc	agctgctttc	480
acctctanga	caaaatgctt	aaagaattta	ctctcatcac	cttggg		526

<210> 294
<211> 601
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

<400> 294

actttaaaag	ccaaatatat	ttttaaaaga	tcattgcttat	aataagtaaa	ttacncatta	60
aggaaacatc	aaaataaagt	agatgaataa	aaaggcacac	tcgaaaaatt	tgagcgcaga	120
aaggacagtt	ctttttgttt	tgttttcta	gtcgggaagaa	aaagaaagag	atatattaaa	180

atcattgttt	tcaagtgaag	gtttctgtca	gttgaagtag	ttagcaatgg	cttcttttct	240
cccggtgtcca	aagcaggctc	ttcctgcgct	gacttctgag	gaggngttca	gtcctctgcc	300
atgtataggc	gatacatcaa	ggcgacggcc	actgcagaga	tggcagggat	cacccagttg	360
gtccaccaac	tggaactaga	atcaatagta	gtgataagag	tttccggagg	cttgtttaac	420
tttgggtctgt	catctggatg	gagctcccca	atgatgaatg	ttttggacat	ttccctggca	480
tctgtagant	gcccgacatc	ctcaaagttc	tcagtagcng	tcacctccac	ttgttccctt	540
aaaacttctt	ccccaccagg	atgctcttcc	agaaatttgg	gncaaatcgn	acaccttgtg	600
g						601

<210> 295
 <211> 262
 <212> DNA
 <213> Homo sapien

<400> 295						
cccttagccc	caagggccct	gggggcagcc	accctcccgc	ctgtcggccc	gtagatttat	60
caaggggtgtt	atgggcccag	ctttgggggg	ccagtcccga	tgcactttga	ggggtgttgg	120
agaggggact	ccccactcg	cacttaactc	aacggctctc	gggccctggg	gctgttttta	180
ccatgtttgt	ttttgaagct	caggtgtctc	acgtctgggc	tgcaccaggc	gaagagagaa	240
attaaagatt	tgaggttttt	cc				262

<210> 296
 <211> 598
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(598)
 <223> n = A,T,C or G

<400> 296						
gttagaacia	ctcagcaaaa	taaaattcct	gtttattgtt	ggacaacatt	gtttcacaca	60
tacatcaaac	aggccaaaaa	aaataaacag	caacttcata	gacaaaaaag	gaaaaaaaaa	120
gaaacctttt	atctttggcc	tttttaacca	tctcatataa	accaactact	tatagtacag	180
ctaagtacat	acacaaaaaa	gttactggaa	tgctcggaat	aagattgttt	ttctgttgtc	240
atttttgctt	tttttacaag	gntttttttc	tcctttgaga	ttataatgaa	catggncaca	300
ccacaagtaa	agtcagaagt	aggacagana	acgctccgaa	ggctggtttg	gtcatccgan	360
atcattaaaa	atggctgacc	ctaacaatat	gtacaaaaat	ataaaatgta	aataaaaaat	420
acaaacaaat	ttccttttta	aagtactttt	aagaaaaaaa	gcagggcctt	ggaagttttg	480
gttctttttt	cctcccctgt	tgcaaattct	catggtttgg	gttgggtggn	gganancccg	540
tgtcatctgc	gggtggcact	gccccgngg	gcgggcgggc	ctctctctcg	aangngac	598

<210> 297
 <211> 509
 <212> DNA
 <213> Homo sapien

<400> 297						
agaacacagg	tgctcgtgaaa	actacccta	aaagccaaaa	tgggaaagga	aaagactcat	60
atcaacattg	tcgtcattgg	acacgtagat	tcgggcaagt	ccaccactac	tggccatctg	120
atctataaat	gcgggtggcat	cgacaaaaga	accattgaaa	aatttgagaa	ggaggctgct	180
gagatgggaa	agggtcctt	caagtatgcc	tgggtcttgg	ataaactgaa	agctgagcgt	240
gaacgtggta	tcaccattga	tatctccttg	tggaaatttg	agaccagcaa	gtactatgtg	300

actatcattg atgccccagg acacagagac tttatcaaaa acatgattac agggacatct	360
caggctgact gtgctgtcct gattgttgct gctgggtgtg gtgaatttga agctgggtatc	420
tccaagaatg ggcaggaccc gagagcatgc ccttctggct tacacactgg gtgtgaaaca	480
actaattgtc ggtgttaaca aaatggatt	509

<210> 298
 <211> 267
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 298	
gggacggggg aaaggagacg cttcttcctc ttgctgctct tctcgttccc gagatcagcg	60
gcggcggtga ccgcgagtgg gtcggcaccg tctccggctc cggngcnaa caatgctgac	120
tgatagcgga ggcggnggca cctccttnna ggaggacctg gactctgtgg ctccgcgac	180
cgccccagct ggggcctcgg agccgcctcc gccgggaggg gtcgggtctgg ggatccncac	240
cgngaggctn tttggggagg gcggggcc	267

<210> 299
 <211> 121
 <212> DNA
 <213> Homo sapien

<400> 299	
ggcacgaggg ccctcggagc tcgtttccag atcgaggtaa gagggacttt cttaaaggcc	60
tagtctatgg gatggggcgg cggaggggaat tttttgagaa ataaaatgaa gctgcagtgt	120
a	121

<210> 300
 <211> 533
 <212> DNA
 <213> Homo sapien

<400> 300	
aaggtgcaca gtatttgatg caggctgctg gtcttggtcg tatgaagcca aacacacttg	60
tccttggtgatt taagaaagat tggttgcaag cagatatgag ggatgtggat atgtatataa	120
acttattttca tgatgctttt gacatacaat atggagtagt ggttattcgc ctaaaagaag	180
gtctggatat atctcatctt caaggacaag aagaattatt gtcacacaa gagaaatctc	240
ctggcaccaa ggatgtggta gtaagtgtgg aatatagtaa aaagtccgat ttagatactt	300
ccaaaccact cagtgaaaaa ccaattacac acaaagttga ggaagaggat ggcaagactg	360
caactcaacc actgttgaaa aaagaatcca aaggccctat tgtgccttta aatgtagctg	420
acaaaagct tcttgaagct agtacacagt ttcagaaaaa acaaggaaag aatactattg	480
atgtctggtg gctttttgat gatggagggt tgaccttatt gataccttac ctt	533

<210> 301
 <211> 560
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(560)
 <223> n = A,T,C or G

<400> 301
 ataaatgata cctttttattg taagtaatgc gcaacactgg cctggcctttg cactgcaagc 60
 cctcgggtcaa gatatagtca aataactatg gctgcagggt ccacagttcc acaataacca 120
 tggctgcacg atccacaatt cagacacaga catagagctg ggggtgggtgg aaggggcagg 180
 aggggtggcag agtgcggtact gtccccagcc ctggcctctc catgcanagt tggcccaggc 240
 agacacacccc catggaatga tgagaaagtg acggcacggc cccttccac agcaagcctg 300
 gggctgccag gaactgccct tcanaacctt tgggcccagg tcnccctgaa nccccacaac 360
 tttttatctg gaataagtat taaaaaacia taaattaagc aaacaacntg gnccttgaag 420
 gatgttgacc nacatgggtcc acagtttttg gcncaaaaaa ataagggtctg gtttgctttt 480
 tttggaaggc aggggtttgtg gnttggcttt caaatnattt tcaaaccatt ccccaggagg 540
 gganaacccc cggggggggaa 560

<210> 302
 <211> 599
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(599)
 <223> n = A,T,C or G

<400> 302
 gcaaagttac aaattttattg gtctggaaat aaatacaaat atctcattaa naaactcctc 60
 tggaaagact tgtgcacaat agttttcccat ccgtactcag cctctcttgc cccgatcccc 120
 gactttttcta ctcaaggcca gggaaggcct ccaaggngat gggcggcagg taacgagtca 180
 ttgcctctca cgccacctgg aaggctggac tacttcctcc tcccaactgc ggggtccan 240
 aaatcctcgg gtcccagngg ctgacttaca atattcaatt cactctgacc aaacttccta 300
 tganaaaaatc cacgngagc caaaatgaaa agtacaaggc agtagtacag gaacctggca 360
 gccgcaactg ccgcccanaa acgtcagtgg ngctgccccca ttcggcgaaa ggtagggag 420
 caggaaaaga ggaagcagga gaggggaagga aagtcccatg gaatatgtat tccanaatcc 480
 ttacattttc tcagccaccg ctccccacgt gagttccac cccaccccg acaagaagca 540
 aagagttctg aggatccaag aacgtgaccg ggtcanacan gttcagctac tgagttcac 599

<210> 303
 <211> 591
 <212> DNA
 <213> Homo sapien

<400> 303
 cggagttgta acgctccact gactgataga gcgaccggcc gaccatggcg cccggagtgg 60
 cccgcgggcc gacgccttac tggaggttgc gcctcgggtg cgccgcgctg ctctgctgc 120
 tcatcccggg ggccgcgcg caggagcctc ccggagctgc ttgttctcag aacacaaaca 180
 aaacctgtga agagtgcctg aagaacgtct cctgtctttg gtgcaacact aacaaggctt 240
 gtctggacta cccagttaca agcgtcttgc caccggcttc cctttgtaaa ttgagctctg 300
 cacgctgggg agtttggttg gtgaactttg aggcgctgat catcaccatg tcggtagtcg 360
 ggggaaccct cctcctgggc attgccatct gctgctgctg ctgctgcagg aggaagagga 420
 gccggaagcc ggacaggagt gaggagaagg ccattgcgtga gcgggaggag aggcggatac 480
 ggcaggagga acggagagca gagatgaaga caagacatga tgaaatcaga aaaaaatatg 540
 gcctgtttta agaagaaaac ccgtatgcta gatttgaaaa caactaaagc g 591

<210> 304
 <211> 441
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(441)
 <223> n = A,T,C or G

<400> 304
 gctggacgga gacctgctgg aggaggagga gctggaggaa gcagaggagg aggaccggtc 60
 gtcgctgctg ctgctgtcgc cgcccgcggc caccgcctct cagacccagc agatcccagg 120
 cgggtccctg ggggtctgtg tgctgccagc cgccagggtc gatgcccggg aggcggcggc 180
 ggcggcgggg gtgctgtacg gaggggacga tgcccagggc atgatggcgg cgatgctgtc 240
 ccacgcctac ggccccggcg gttgtggggc ggcggcggcc gccctgaacg gggagcaggc 300
 ggccctgctc cggagaaaga gcgtcaacac caccgagtgc gtcccgggtc ccagctccga 360
 gcacgtcgcg gagatcgtcg gccgccaggg ttgtaaaatt aaagcactga nagccaagac 420
 aaacacgtat atcaagactc c 441

<210> 305
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 305
 tcgccatgcc cccttcttag cactgcaccg ccagggtccat gctgctgcca ccccagacct 60
 gggctttgcc tgccacctct gtgggcagag cttccgaggc tgggtggccc tggttctgca 120
 tctgcgggcc cattcagctg caaagcggcc catcgcttgt cccaaatgcg agagacgctt 180
 ctggcgacga aagcagcttc gagtcatct gcggcgggtc caccctcccg ccccgaggc 240
 ccggcccttc atatgcggca actgtggccg gagctttgcc cagtgggacc agctagtgtc 300
 ccacaagcgg gtgcacgtag ctgaggccct ggaggaggcc gcagccaagg ctctggggcc 360
 ccggcccagg ggccgccccg cggtgaccgc cccccggccc ggtggagatg ccgtcgaccg 420
 ccccttccag tgtgcctgtt gtggcaagcg cttccggcac aagcccaact tgatcgctca 480
 cccgcgcgtg c 491

<210> 306
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 306
 tctctttctt ttaagacagg aatgtaagcc acaacattta caaatacaat gttttaactc 60
 tctacatgta ggaagccaac ctgctccttt ttgatcttct tctttggcac aacctcagtg 120
 gatttctctg attcagaacg agttctaatt gatcttctct gttgcttctt ttctactgag 180
 cctgtagaac cagatgttgc ttcaggagat gatacactct gcgttggctt ttcatttctc 240
 tggtttggtg tagaaattat aagcctgtct tgccccctga cacttatttc tgttttgtaa 300
 ccaattccct ttgttgaata aacaaattga tcgataaatt tcccatcccc tgtagcattc 360

tgaagagcaa acacttggtc aattttcaca actggagaca tgttacactt ctgcaaatacc	420
aggctccctt tgtgcatccg taatggaagc tggtaaggat ttccttgctg ccgcagtttt	480
ccaggctatt ttaacaggcg gnggctcttc ctctttccgc acttgtgtgc cgctctggc	540
tatgtct	547

<210> 307
 <211> 571
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(571)
 <223> n = A,T,C or G

<400> 307	
cgctgcatgt gataatgtca tcattttattt ttaaattggtt ctaaattgca natttaagtt	60
gatttcaaata caaccctatt tttaaattac ttttaatatagg aanaaatgaa gcaaggacat	120
acataatcta ctatatattga aggactcaaa caaatacatg tttggctgtg aattctgtac	180
tctcaccaaaa acagagataa aaatccacct aaaatacact ttccttcatt tagtgcttgt	240
ggganaagggt caagtattgc actttaaaat tactttcatc taacatttgc cccaactttc	300
cccctgaatt cactatatgt tttcagcaaa catgatttta taaattttta gtataaaagc	360
aactaggttt tctaattcaa ctttggaagg tttactttac tctacanagc tatttttgta	420
aaacggcata tttacttaca aaattganag ataggggcat ccagctgagg tacatttcct	480
cccttggcgt tgagtttctg gacttgggtc gggggcacag gcttgtgtga ctgccccgtg	540
gcccgataca tggcctggac cccaggatgc g	571

<210> 308
 <211> 591
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(591)
 <223> n = A,T,C or G

<400> 308	
ctccttatgt gtctgcctac ttcatttcttc ggcatttcct gcttatccaa gttcaccatt	60
tcaggtcacc actggatatc agttgcctgt atataattat caggcatttc ctgcttatcc	120
aagttcacca tttcagggtca ccactggata tcagttgcct gtatataatt atcaggcatt	180
tcctgcttat ccaagttcac catttcagggt caccactgga tatcagttgc ctgtatataa	240
ttatcaggca tttcctgctt atccaagttc accatttcag gtcaccactg gatatcagtt	300
gcctgtatat aattatcagg catttcctgc ttatccaagt tcaccatttc aggtcaccac	360
tggatatcag ttgcctgtat ataattatca ggcatttcct gcttatccaa gttcaccatt	420
tcaggtcacc actggatatc agttgcctgt atataattat caggcatttc ctgcttatcc	480
aaattcagca gttcagggtca ccactggata tcagttccat gtatacaatt accagatgcc	540
accgcagtg cctgtttgggg gagcaaagga gaaatntgtg gaccgaagca t	591

<210> 309
 <211> 591
 <212> DNA
 <213> Homo sapien

<400> 309

aggggggtgca	cgtactccca	actgtggtcg	cgctctcacc	ccttctgctg	ctctcgtggc	60
cccctcgcga	tggcgggcat	cctgtttgag	gatattttcg	atgtgaagga	tattgaccgc	120
gagggcaaga	agtttgaccg	aggtaagtaa	gtgtctcgac	tgcattgtga	gagtgaatct	180
ttcaagatgg	atctaattct	agatgtaaac	attcaaattt	accctgtaga	cttgggtgac	240
aagtttcggt	tggtcatagc	tagtaccttg	tatgaagatg	gtaccctgga	tgatgggtgaa	300
tacaacccca	ctgatgatag	gccttccagg	gctgaccagt	ttgagtatgt	aatgtatgga	360
aaagtgtaca	ggattgaggg	agatgaaact	tctactgaag	cagcaacacg	cctgctgaga	420
ttgagagctg	ctgagtggca	gtgctccaga	atcacgggat	ggggccttct	gtttcagctc	480
tgcgtacgtg	tcctatgggg	gcctgctcat	gaggctgcag	ggggatgccca	acaacctgca	540
tggattcgag	gtggactcca	gagtttatct	cctgatgaag	aagctagcct	t	591

<210> 310

<211> 488

<212> DNA

<213> Homo sapien

<400> 310

tgggtctcaag	cctgaagagg	ctccgcccac	aagctggccc	atgaagttag	caatgcctgt	60
ggcttcagtc	aattgtcttg	agactgtgaa	gaggctgaaa	gacaccttcc	cgggtggaag	120
aaggagttca	ctgaaaactt	atcttaaaact	gaccttccc	tttgagttag	tcttcattcc	180
tctcccatgt	gggaacccag	cctccgatgc	cccggggact	aggggaaaca	gttggagggtc	240
cgtgccgtcc	ccagcctgcc	acgggtgcga	ggacagccaa	gtcctgagt	actcaagatg	300
cttcacttac	atggaagaaa	cttctaaaac	tctaccgagt	ggttttttgta	tatactaaag	360
ttctatttag	agctttttctg	ttttgggcaa	gttcgctgct	ccttctattt	gggcactttg	420
gtttttgtac	tgtctttttgt	gacggcattg	attgaacatt	ttttactagt	agtcttatga	480
ctttttgta						488

<210> 311

<211> 511

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 311

cccgtttntg	nagcaaaaana	gggggaagat	ttataggttag	aggcgacaaa	cctaccgagc	60
ctggtgatag	ctggttgtcc	aagatagaat	cttagttcaa	ctttaaattt	gcccacagaa	120
ccctctaaat	ccccttgtaa	atttaactgt	tagtccaaag	aggaaacagct	ctttggacac	180
taggaaaaaa	ccttgtagag	agagtaaaaa	atttaacacc	catagtaggc	ctaaaagcag	240
ccaccaatta	agaaagcggt	caagctcaac	accactacc	taaaaaatcc	caaacatata	300
actgaactcc	tcacacccaa	ttggaccaat	ctatcaccct	atagaagaac	taatgttagt	360
ataagtaaca	tgaaaacatt	ctcctccgca	taagcctgcg	tcagattaaa	acactgaact	420
gacaattaac	agcccaatat	ctacaatcaa	ccaacaagtc	attattaccc	tcactgtcaa	480
ccaacacag	gcatgctcat	aaggaaaggt	t			511

<210> 312

<211> 591

<212> DNA

<213> Homo sapien

<400> 312

gaacttgctg	tgaaggaagc	agaaactgat	gaaataaaaa	ttttgctgga	agaaagcaga	60
gcccagcaga	aggagacctt	gaaatctctt	cttgaacaag	agacagaaaa	tttgagaaca	120
gaaattagta	aactcaacca	aaagattcag	gataataatg	aaaattatca	ggtgggctta	180
gcagagctaa	gaactttaat	gacaattgaa	aaagatcagt	gtatttccga	gttaattagt	240
agacatgaag	aagaatctaa	tatacttaaa	gctgaattaa	acaaagtaac	atctttgcat	300
aaccaagcat	ttgaaataga	aaaaaaccta	aaagaacaaa	taattgaact	gcagagtaaa	360
ttggattcag	aattgagtgc	tcttgaaaga	caaaaagatg	aaaaaattac	ccaacaagaa	420
gagaaatacg	aagctattat	ccagaacctt	gagaaagaca	gacaaaaatt	ggtcagcagc	480
caggagcaag	acagagaaca	gttaattcag	aagcttaatt	gtgaaaaaga	tgaagctatt	540
cagactgccc	taaaagaatt	taaattggag	agagaagttg	ttgagaaaga	g	591

<210> 313

<211> 373

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(373)

<223> n = A,T,C or G

<400> 313

ttgatttttta	ttctgnatnt	tattactgaa	atangttgtc	ctantnatcc	caccccacaa	60
taaaaatntn	acccangccc	ccnttttctt	tncctnatnc	cctnttccac	cacaccatcc	120
cgaacaagt	gctccaggat	tccctgcccc	ctggccattt	tggagtgtgn	ccattgggta	180
gcaatgtgga	aaccaccaag	gcctttgtgg	anaaaatgga	gggggttgag	ggagncccan	240
gaggggctna	tttgagggcc	tttgccactt	gctcataggc	gagctcnatc	tcctcntnat	300
ctgnacangt	ggaagcaaatt	tcttcccggg	cgtnnggnant	gctnaagnac	cgatgcactc	360
cccgaaggn	ctn					373

<210> 314

<211> 591

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(591)

<223> n = A,T,C or G

<400> 314

cccgtgccgc	cgccgcctcc	tgggaagaga	ggaagcgggg	gaggagccca	cgtcgcctgt	60
cacccaatat	ctccagccgc	gcagtcccga	agagtgtgta	atgttcgcct	gcgccaagct	120
cgcctgcacc	ccctctctga	tccgagctgg	atccagagtt	gcatacagac	caatttctgc	180
atcagtgtta	tctcgaccag	aggctagtag	gactggagag	ggctctacgg	tatttaattgg	240
ggcccagaat	ggtgtgtctc	agctaatacca	aagggagttt	cagaccagtg	caatcagcag	300
agacattgat	actgctgcca	aattttattgg	tgcaggtgct	gcaacagtag	gagtggctgg	360
ttctgggtgct	ggtattggaa	cagtcttttg	cagccttata	attggttatg	ccagaaaccc	420
ttcgctgaag	cagcagctgt	tctcatatgc	tatcctggga	tttgccctgt	ctgaagctat	480
gggtctcttt	tgtttgatgg	ttgctttctt	gatttttgtt	gccatgtaac	aaattactgc	540
ttgacatgtt	ggcattcata	ttaattacng	atgtaattct	gtgtatctta	c	591

<210> 315

<211> 591
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(591)
 <223> n = A,T,C or G

<400> 315

aagcccttca	ccaacaaaga	tgcctatact	tgtgcaaatt	gcagtgcctt	tgtccacaaa	60
ggctgccgag	aaagtctagc	ctcctgtgca	aaggtcaaaa	tgaagcagcc	caaagggagc	120
cttcaggcac	atgacacatc	atcactgccc	acgggtcatta	tgagaaacaa	gccctcacag	180
cccaaggagc	gtcctcggtc	cgcagtcctc	ctgggtggatg	aaaccgctac	cacccaata	240
tttgccaata	gacgatccca	gcagagtgtc	tcgctctcca	aaagtgtctc	catacagaac	300
attactggag	ttggcaatga	tgagaacatg	tcaaacacct	ggaaattcct	gtctcattca	360
acagactcac	taaataaaat	cagcaaggtc	aatgagtcaa	cagaatcact	tactgatgag	420
ggtacagaca	tgaatgaagg	acaactactg	ggagactttg	agattgagtc	caaacagctg	480
gaagcagagt	cttggagtcg	gataatagac	agcaagtttc	taaaacagcc	aaaagaaaga	540
tgtgggtcaa	acngcgagaa	gtaatatatg	agttggatgc	agacagagtt	t	591

<210> 316
 <211> 591
 <212> DNA
 <213> Homo sapien

<400> 316

gtttttataa	gaataaaaatt	ccattcaagc	cagatgggtgt	ttacattgaa	gaagttctaa	60
gtaaatggaa	aggagattat	gaaaaactgg	agcacaacca	cacttacatt	caatggcttt	120
tccccctgag	agaacaaggc	ttgaacttct	atgccaaaga	actaactaca	tatgaaattg	180
aggaattcaa	aaaaacaaaa	gaagcaatta	gaagattcct	cctggcttat	aaaatgatgc	240
tagaattttt	tggaataaaa	ctgactgata	aaactggaaa	tgttgctcgg	gctgttaact	300
ggcaggaaaag	atcttcagcat	ctgaatgagt	cccagcacaa	ctatttaaga	atcactcgta	360
ttctttaaag	ccttgggtgag	cttggatatg	aaagttttaa	atctcctctt	gtaaaattta	420
ttcttcatga	agctcttgtg	gagaatacta	ttcccaatat	taagcagagt	gctctagagt	480
attttgttta	tacaattaga	gacagaagag	aaaggagaaa	gctcctgcgg	ttcgcccaga	540
aacactacac	gccttcagag	aactttatct	ggggacccgc	ctcgaaaaga	a	591

<210> 317
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 317

ccaagctacg	gaagcaagtg	gaagagattt	ttaatttgaa	atttgctcaa	gctcttggac	60
tcaccgaggc	agtaaaagta	ccatatcctg	tgtttgaatc	aaaccgggag	ttcttctatg	120
tggaaggctt	gccagagggg	attcccttcc	gaagccctac	ctggtttgga	attccacgac	180
ttgaaaggat	cgtccacggg	agtaataaaa	tcaagttcgt	tgttaaaaaa	cctgaactag	240
ttatttccta	cttgcctcct	gggatggcta	gtaaaataaa	cactaaagct	ttgcagtccc	300
ccaaaagacc	acgaagtcct	ggg				323

<210> 318
 <211> 591
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(591)

<223> n = A,T,C or G

<400> 318

gatggcgtag	ttggcttgga	gactggcgcg	gcgttcgtgt	ccgagttctc	tgcagggtcac	60
tagtttcccg	gtagttcagc	tgcacatgaa	tagaacagca	atgagagcca	gtcagaagga	120
ctttgaaaat	tcaatgaatc	aagtgaaact	cttgaaaaag	gatccaggaa	acgaagtga	180
gctaaaactc	tacgcgctat	ataagcaggc	cactgaagga	ccttgtaaca	tgcccaaacc	240
aggtgtat	gacttgatca	acaaggccaa	atgggacgca	tggaaatgcc	ttggcagcct	300
gccaagga	gctgccaggc	agaactatgt	ggatttggtg	tccagtttga	gtccttcatt	360
ggaatcctct	agtcagggtg	agcctggaac	agacaggaaa	tcaactgggt	ttgaaactct	420
ggtggtgacc	tccgaagatg	gcatcacaaa	gatcatgttc	aaccggccca	aaaagaaaaa	480
tgccataaac	actgagatgt	atcatgaaat	tatgcgtgca	cttaaagctg	ccagcaanga	540
tgactcaatc	atcacttggt	ttaacaggaa	atggtgacta	ttacagtagn	g	591

<210> 319

<211> 591

<212> DNA

<213> Homo sapien

<400> 319

gaattcggca	cgaggttgct	gctaagcgaa	cgcccttttg	agcttacgga	ggccttctga	60
aagacttcac	tgctactgac	ttgtctgaat	ttgctgccaa	ggctgccttg	tctgctggca	120
aagtctcacc	tgaaacagtt	gacagtgtga	ttatgggcaa	tgctctgcag	agttcttcag	180
atgctatata	tttggcaagg	catgttggtt	tgcgtgtggg	aatcccaaag	gagaccccag	240
ctctcacgat	taataggctc	tgtggttctg	gttttcagtc	cattgtgaat	ggatgtcagg	300
aaatttgtgt	taaagaagct	gaagttgttt	tatgtggagg	aaccgaaagc	atgagccaag	360
ctccctactg	tgtcagaaat	gtgcgttttg	gaaccaagct	tggatcagat	atcaagctgg	420
aagattcttt	atgggtatca	ttaacagatc	agcatgtcca	gctcccatg	gcaatgactg	480
cagagaatct	tgctgtaaaa	cacaaaataa	gcagagaaga	atgtgacaaa	tatgccctgc	540
agtcacagca	gagatggaaa	gctgctaata	atgctgggta	ctttaatgat	g	591

<210> 320

<211> 591

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(591)

<223> n = A,T,C or G

<400> 320

ggctccggcg	tctgcagggg	tcgccgagct	aaccctgtgc	taggcgagtg	gggcggggcg	60
gccggcacca	tgctcaggga	ggcgaaccgt	ggcaccgaga	gcaagaaaat	gagctctgag	120
ctcttcaccc	tgacctatgg	tgccctggtc	acccagctat	gtaaggacta	tgaaaatgat	180
gaagatgtga	ataaacagct	ggacaaaatg	ggctttaaca	ttggagtcgg	gctgattgaa	240
gatttcttgg	ctcgggtcaa	tgttgggagg	tgccatgact	ttcgggaaac	tgccgatgtc	300
attgccaaag	tggcgttcaa	gatgtacttg	ggcatcactc	caagcattac	taattggagc	360
ccagctggtg	atgaattctc	cctcattttg	gaaaataacc	ccttggtgga	ctttgtggaa	420

```

cttcctgata accactcatc ccttatttat tccaatctct tgtgtggggt gttgcgggga 480
gctttggaga tgggtccagat ggctngngga ggcccaagtt tgtccaggac accctnaaag 540
gagacgggng tgacagaaat ccggatgaga ttcatcaggc ggattganga c 591

```

```

<210> 321
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```

```

<400> 321
ctgcttggct ccacacgtgg gccgccgtag gtattccgac cggtaattcc tcctattggt 60
gtgcagcagc cacattgaag gatagagtgg cagcagaggc caaggatcgt gagttgatgg 120
agtttgctgc tgaaaatgaa gggaagtctg ggggaggtct ccacagcgta gctgaggggg 180
tgccggctaag tccagagcct ggcagggagg gagtaaggga cttagcaggg gcggaggagt 240
tctgcggngg anaggagggg 260

```

```

<210> 322
<211> 559
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(559)
<223> n = A,T,C or G

```

```

<400> 322
ttccacatga catggagtgt gaagctggat gagcacatca ttccactggg aagcatggca 60
nttaacagca tctcaaaact gactnanctc acccagtctt ccatgtattc acttcctaata 120
gcacccactc tggcanacct gnaggacnat acacatgaag ncantgatga tcagccagan 180
aancctcact ttgactctcg canngtgata tttgagctgg attcatgcaa tggngagtggg 240
aaagtgttgc ttgtctacaa aagtgggaaa ccagnattag cagaanacac tgagatctgg 300
ttcctgnaca nancgttata ctggcatttt ctccacanaca cttttactgc ctattaccgc 360
ctgctcatca cccacctggg cctgccccag tggcaatatg ctttcccagc tatggcatta 420
gccacagggc caagcaatgg ttcagcatgt ataaacctat cacctacaac acaaacctgc 480
tcacagaaga naccgactcc tttgtgaata agctagatcc canctnagtg tttaagagca 540
agaacaagat cgttatccc 559

```

```

<210> 323
<211> 492
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

```

```

<400> 323

```

```

cctgtctccc agccgtacca gcgagggctc ggccggcagc gccgggctgg ggggcggcgg      60
cgccggcgcc ggagccgggg tgggtgcagg cgccggcggg ggcagcggcg cgagcagcgg      120
cgccggggcc ggggggctgc aaccacagcag ccgcgctggc ggcggccggc cctccagccc      180
cagcccgtcg gtggtgagcg agaaggagaa ggaagagttg gagcggctgc agaaagagga      240
ggaggagagg aagaagaggc tgcagctgta tgtgttcgtg atgcgctgca tcgcctaccc      300
ctttaatgcc aagcagccca ccgacatggc tcgccggcag cagaagatca gcaaacagca      360
gctgcagaca gtcaaggacc ggtttcaggc tttcctcaat ggggaaaccc anatcatggc      420
tgacgaagcc ttcatagaacc gctgtngcag agttactatg aggtgttcct gaagaccacc      480
cgtgtggccg ca                                         492

```

```

<210> 324
<211> 474
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

```

```

<400> 324

```

```

aatttcagca acatacttct caatttcttc aggatttaaa atcttgaggg attgatctcg      60
cctcatgaca gcaagttcaa tgtttttgcc acctgactga accacttcca ggagtgcctt      120
gatcaccagc ttaatggcca natcatctgt ttcaatggct tcgtcagtat agttcttctc      180
cagnaactca cgcactgact tggcaccgcc gcctatggca ttggccttcc aggcattgga      240
tgtgcccagc gggtcagtct gatagagcct aggagtggca tcaaagtcga aaccacagat      300
gagggcagag atgccaaacg gcctgcgccc attgctctgc gtataacgct gcttcanact      360
ggcgatgtag cgggtgatgt actccacagt gaccgggtcc tccacagtca gccgggtggc      420
ctggcactcc acccgggccc tgttgatgac tatccttgca tcggcgggtga ggcc          474

```

```

<210> 325
<211> 532
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(532)
<223> n = A,T,C or G

```

```

<400> 325

```

```

gaggagacag gacagagcgt ctggagaggg aggaggacac cgagttcccc gtgttggcct      60
ccaggtcctg tgcttgccga gccgtccggc ggctgggacg gagccccgac aatgggcaac      120
gcgcaggagc ggccgtcaga gactatcgac cgcgagcgga aacgcctggc cgagacgctg      180
caggcggact cgggactgct gttggacgcg ctgctggcgc ggggcgtgct caccgggcca      240
gagtacgagg cattggatgc actgcctgat gccgagcgca gggtgccggc cctactgctg      300
ctggtgcagg gcaagggcga ggccgcctgc caggagctgc tacgctgtgc ccagcgtacc      360
gcgggcgcgc cggaccccg cttgggactgg cagcacgtgg gtccgggcta ccgggaccgc      420
agctatgacc ctccatgccc aggccactgg acgccggagg caccgggctc ggggaccaca      480
tgccccgggt tgcccagact tcagaccctg acgaggncgg gggccctgag gg          532

```

```

<210> 326
<211> 322
<212> DNA

```


<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 326

caaaattaac	atTTTTatta	aatcaagtta	aaaaaaatgt	tcagtgtana	aaagtcaaca	60
agggttttaa	caaaaccaa	atataccttt	ttatacaata	tatgtatata	ttagcagcaa	120
actacttctg	anattctctt	tcttttatgt	tcttctagtt	atTTTaaaga	aagcataaac	180
aatgtatatt	agtatggaat	gtcagcaa	ccactcttag	tcctttattc	tgtgatttgg	240
gccttctaca	aaatactttg	tgattctcac	taatgaatat	taagaacata	cccaatttta	300
actaaaaagt	agtgaaacag	tg				322

<210> 327

<211> 387

<212> DNA

<213> Homo sapien

<400> 327

aaaaccgtgt	actattagcc	atgggtcaacc	ccaccgtggt	cttcgacatt	gccgtcgacg	60
gcgagccctt	gggcccgcgc	tcctttgagc	tgtttgcaga	caaggtccca	aagacagcag	120
aaaattttcg	tgctctgagc	actggagaga	aaggatttgg	ttataagggt	tcctgctttc	180
acagaattat	tccaggggtt	atgtgtcagg	gtgggtgactt	cacacgccat	aatggcactg	240
gtggcaagtc	catctatggg	gagaaatttg	aagatgagaa	cttcaccta	aagcatacgg	300
gtcctggcat	cttgtccatg	gcaaattgctg	gacccaacac	aaatgggtcc	cagtttttca	360
tctgcactgc	caagactgag	tggttgg				387

<210> 328

<211> 502

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 328

agcagcccgg	cgcggccgcc	gcgcccggcg	gcggcaaggc	tccggggccag	catgggggct	60
tcgtggtgac	tgtcaagcaa	gagcgcggcg	agggtccacg	cgcgggagag	aaggggtccc	120
acgaggagga	gccggtgaag	aaacgcggct	ggcccaaggg	caagaagcgg	aagaagattc	180
tgccgaatgg	gccaaggca	ccggtcacgg	gctacgtgcg	cttcctgaac	gagcggcgcg	240
agcagatccg	cacgcgccac	ccggtctctg	cctttcccga	gatcaccaag	atgctgggag	300
ccgagtggag	caagctgcag	ccaacggaaa	agcagcggta	cctggatgag	gccnagagag	360
agaagcagca	gtacatgaag	gagctgcggg	cgtaccagca	gtctgaagcc	tataagatgt	420
gcacggagaa	gatccaggag	aagaagatca	agaaagaaga	ctcgagctct	gggctcatga	480
acactcttct	gaatggacac	aa				502

<210> 329

<211> 463

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(463)
 <223> n = A,T,C or G

<400> 329

caagttgcac	attttaattt	acaattttta	ccaataaaaa	ggattagttt	acaaaaaggg	60
aagtccttta	tacaaaataa	ggacaatttg	taaaganaat	ccactgtcat	gttttgcctt	120
gtcaagtcaa	aactcaaata	gcttgttttg	gtaaaattat	tccagaaaca	taatccagac	180
aaaatcaata	acgtcatcag	cttcctaacc	atgtttaana	ggaataactt	catgaacatt	240
ttgccctgaa	ctgaanagtt	ctaaatactt	gtaaaccttt	aggaaaaaat	gactgctcgc	300
aggcagcttg	actggtaaga	gggtacacca	nagactccgg	gtcactcact	gtcagaatat	360
tcttatacat	acaatgagtc	tccacgcctg	tacaatgagt	gtcgtgcaac	ataattggag	420
taatggcctc	taaaatttta	caagtaaact	ttattgnggc	ccc		463

<210> 330
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 330

taattataga	tctacaaaat	atgaaatgta	ttccaagaat	gcagaaaaac	catctagaag	60
caaaaggact	ataaaacaaa	aacagagaag	aaaattcatg	gctaaaccag	ctgaagaaca	120
gcttgatgtg	ggacagtcta	aagatgaaaa	catacatata	tcacatatta	ccaagacga	180
atttcaaaga	aattcagaca	gaaatatgga	agagcatgaa	gagatgggaa	atgatttgtt	240
ttccaaaaaa	acagatgcca	cctgtgggaa	gcaagaaaag	tagcactaga	aaagataagg	300
aagaatctaa	aaagaagcgc	ttttccagtg	agtccaagaa	caaacttgtn	cctgaagaag	360
tgacttcaac	tgtcacgaaa	agtcgaanaa	tttccangcg	tccatctgat	tggtgggtgg	420
taaaancaga	ggagagtcct	gttttatagca	attcttcagt	aagaaatgaa	ttaccaantg	480
catcacaatn	ntgcccggaa					500

<210> 331
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 331

tctctctctc	tctcaaaatt	acagtgttca	ttgtcattga	cctcagcagc	aaatttgact	60
tgaattcact	taggatcgca	ggaatcaggg	gaaagtgatt	ttaaagggtg	tttctccagc	120
acattttaag	aaaagggacc	aaaagttatt	ttagcttcct	caatagattg	catgttgctt	180
attaggataa	taaattaata	ttaaattgca	tatatgtctt	gnctttatta	tggcatctat	240
ttaggagttg	ttcaaatac	tgcagtaggg	ctctgcaa	aaaataatgn	aacctattat	300
catggatcta	atgnactgna	actttatcag	tgaaaggnaa	aatctcaaat	aacaagtaca	360

aacattggac aattacctat aaagatttgt aaaaggaaaa tttttccata gatttcattc	420
ttggcatttt gtaaagacga ccctgcagnc ccctgtttgn aactttttta ataaaataga	480
catctgttta cttg	494

<210> 332
 <211> 538
 <212> DNA
 <213> Homo sapien

<400> 332	
aaagaacaaa tggaacgcga tgggtgttct gaacaagagt ctcaaccgtg tgcatttatt	60
gggataggaa atagtgacca agaaatgcag cagctaaact tggaaggaaa gaactattgc	120
acagccaaaa cattgtatat atctgactca gacaagcgaa agcacttcat gttgtctgta	180
aagatgttct atggcaacag tgatgacatt ggtgtgttcc tcagcaagcg gataaaagtc	240
atctccaaac cttccaaaaa gaagcagtca ttgaaaaatg ctgacttatg cattgcctca	300
ggaacaaagg tggctctgtt taatcgacta cgatcccaga cagttagtac cagatacttg	360
catgtagaag gaggtaattt tcatgccagt tcacagcagt ggggagcctt ttttattcat	420
ctcttggatg atgatgaatc agaaggagaa gaattcacag tccgagatgg ctacatccat	480
tatggacaaa cagtcaaact tgtgtgctca gttactggca tggcactccc aagattga	538

<210> 333
 <211> 499
 <212> DNA
 <213> Homo sapien

<400> 333	
ctcagcctgc gggactgctc ggctcggctt ctaggcggtt ttgatgaaca cctggcttta	60
ttcttgcaat gaagaaaggt tctcaacaaa aaatattctc caaagcaaag ataccatcat	120
catctcactc tcctatccca tcatctatgt ccaatatgag atctagggtca ctttcacctt	180
tgattggatc agagactcta ccttttcatt ctggaggaca gtggtgtgag caagttgaga	240
ttgcagatga aaacaatatg ctttttgact atcaagacca taaaggagct gattcacatg	300
caggagttag atatattaca gaggccctca ttaaaaaact tactaaacag gataatttgg	360
ctttgataaa atctctgaac ctttcacttt ctaaagacgg tggcaagaaa tttaagtata	420
ttgagaattt ggaaaaatgt gttaaacttg aagtactgaa tctcagctat aatctaatag	480
ggaagattga aaagtcgga	499

<210> 334
 <211> 561
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(561)
 <223> n = A,T,C or G

<400> 334	
ttcccggtag ttcagctgca catgaataga acagcaatga gagccagtca gaaggacttt	60
gaaaattcaa tgaatcaagt gaaactcttg aaaaaggatc caggaaacga agtgaagcta	120
aaactctacg cgctatataa gcaggccact gaaggacctt gtaacatgcc caaaccaggt	180
gtatttgact tgatcaacaa ggccaaatgg gacgcatgga atgcccttgg cagcctgccc	240
aaggaagctg ccaggcagaa ctatgtggat ttggtgtcca gtttgagtcc ttcattggaa	300
tcctctagtc aggtggagcc tggaacagac aggaaatcaa ctgggtttga aactctggtg	360
gtgacctccg aagatggcat cacaaagatc atgttcaacc cggcccaaaa agaaaaatgc	420

cataaact	gagatgtatc	atgaaattat	gcgtgcactt	aaagctgcc	gcaaggatga	480
ctcaatcatc	actgttttaa	cangaaatgg	tgactattac	agtagtgga	atgatctgac	540
taacttcnct	gatattcccc	c				561

<210> 335
 <211> 551
 <212> DNA
 <213> Homo sapien

<400> 335						
aagctggtca	tggctgggga	gaccaccaac	tcccgcggcc	agcggctgcc	ccagaaggga	60
gacgtggaga	tgctgtgcgg	cgggcgcgcc	tgccagggct	tcagcggcat	gaaccgcttc	120
aattcgcgca	cctactccaa	gttcaaaaac	tctctggtgg	tttccttcct	cagctactgc	180
gactactacc	ggccccggtt	cttcctcctg	gagaatgtca	ggaactttgt	ctccttcaag	240
cgctccatgg	tcctgaagct	caccctccgc	tgccctggctc	gcatgggcta	tcagtgcacc	300
ttcggcgtgc	tgaggccgg	tcagtacggc	gtggcccaga	ctaggaggcg	ggccatcatc	360
ctggccgcgg	cccctggaga	gaagctccct	ctgttcccgg	agccactgca	cgtgtttgct	420
ccccgggcct	gccagctgag	cgtggtgggt	ggatgacaag	aagtttgtga	gcaacataac	480
caggttgagc	tcgggtcctt	tccggaccat	acggtgcgag	aaacgatgtc	cgacctgccg	540
gaagtgcgga	a					551

<210> 336
 <211> 540
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(540)
 <223> n = A,T,C or G

<400> 336						
aggtctatgt	ctactgaagg	caataaacga	ggaatgatcc	agcttattgt	tgcaaggaga	60
ataagcaagt	gcaatgagct	gaagtcacct	gggagccccc	ctggacctga	gctgcccatt	120
gaaacagcgt	tggatgatag	agaacgaaga	atttcccatt	ccctctacag	tgggattgag	180
gggcttgatg	aatcgcccag	cagaaatgct	gccctcagta	ggataatggg	taaataccag	240
ctgtccccta	cagtgaatat	gcccccaagat	gacactgtca	ttatagaaga	tgacaggttg	300
ccagtgcctc	ctccacatct	ctctgaccag	tcctcttcca	gctcccatga	tgatgtgggg	360
tttgtgacgg	cagatgctgg	tacttggggc	aaggctgcaa	tcagtgatcc	agccgactgc	420
tctttgagtc	cagatgttga	tccagttcct	gcttttcaac	gaaaaaggat	ttggacgtca	480
gaagtatgtc	agaaaaacgc	accaaagcaa	ttttcanatg	ccagtcaatt	ggatttcggt	540

<210> 337
 <211> 422
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(422)
 <223> n = A,T,C or G

<400> 337						
gcagcaggaa	cagttacagc	agcagcagca	acagcagctg	ttgcaacagc	agcaggaaca	60

attgcagcag	caacaactgc	agcctcctcc	cctggagccc	gaggaggagg	aagaggtgga	120
gctggagctc	atgccggtgg	acctgggggc	agagcaggag	ctggagcagc	agcggcagga	180
gttggagcgg	cagcaggagc	tggaacggca	gcaggagcag	cggcagctgc	agctcaaact	240
gcaggaggag	ctgcagcagc	tgagcaaca	gctggagcag	cagcagcagc	agctggagca	300
gcaggaggtg	cagctggagc	tgaccccggt	ggagctaggc	gccagcagc	aggaggtgca	360
gctggagctg	acccccgtgc	agccggagct	gcagctggaa	ctggtgccan	cccagggggc	420
gg						422

<210> 338
 <211> 601
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

<400> 338						
catcttacga	acgctctatg	atgtcttatg	agcgggtctat	gatgtcccct	atggctgaac	60
gctctatgat	gtcagcctac	gagcgtctta	tgatgtcagc	ctacgagcgc	tctatgatgt	120
cccctatggc	tgagcgtctt	atgatgtcag	cttatgaacg	ctccatgatg	tcagcttatg	180
aacgctccat	gatgtcccca	atggctgata	gatctatgat	gtccatgggt	gctgaccggg	240
ctatgatgtc	gtcatactct	gctgctgacc	ggctctatgat	gtcatcgtag	tctgcagctg	300
accgatctat	gatgtcatct	tatactgctg	atcggttcaat	gatgtctatg	gctgctgatt	360
cttacaccga	ttcttacact	gacacatata	cagaggcata	tatggtgcc	cctttgcctc	420
ctgaagagcc	cccaacaatg	ccaccgttgc	cacctgagga	gccaccaatg	acaccaccat	480
tgctnctga	ggaaccaccc	agaggggtcca	gcattgccca	cttgagcagt	cagcattaac	540
cagcttgaaa	atacttggcc	ctacanangg	tgccatcatt	accatctgaa	gagctgtatc	600
g						601

<210> 339
 <211> 440
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(440)
 <223> n = A,T,C or G

<400> 339						
agagggagga	ggcccaactg	gtgatgctgc	tgctgctgct	gctgccgccg	ccgccgcctc	60
tattgctgat	actctagtgg	ggctggaagg	gtggttccta	ttcgaccat	cgccaaccag	120
agacagaggg	aaaaaaaaaa	ccggcagcca	ctgctgatgt	tggtttcgga	ggctgcatcc	180
gactcgggtca	caaggaaaat	ggattcagtt	tgcatctctc	cctcctttaa	acagcttctc	240
cgggtctcag	catggtatca	aagcttgaaa	gagagaagac	tcaagaagcg	aagaggattc	300
gtgagctgga	gcagcgcaag	cacacgggtgc	tggtgacaga	actcaaagcc	aagctccatg	360
aggagaagat	gaaggagctg	caggctgtga	gggagaacct	tatcaagcag	cacgacagga	420
aatgtcaang	acggtgaagg					440

<210> 340
 <211> 450
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(450)

<223> n = A,T,C or G

<400> 340

gatttccagg	ggcggatatt	gagtgtcgac	ccagaggaag	aaagggagga	gggcccgcct	60
aggattcctc	aggccgacca	gtggaagtct	tcaaacaaga	gcctggtgga	ggctctgggg	120
ctggaagccg	agggtgcagt	tcctgagaca	cagactttga	ccggatggag	taaggggttc	180
attggcatgc	acagggaaat	gcaagtcaac	cccatttcaa	agcggatggg	gcccattgact	240
gtggtcagga	tggacgcttc	agtccagcca	ggcccttttc	ggaccctgct	ccagtttctt	300
tatacgggac	aactggatga	aaaggaaaag	gatttgggtg	gcctgggtca	gatcgcagag	360
gtcctcgaga	tggtcgattt	gaggatgatg	gtggaaaaca	tcatgaacaa	ggaagccttc	420
atgaaccagg	agattacgaa	nncctttcac				450

<210> 341

<211> 451

<212> DNA

<213> Homo sapien

<400> 341

aacagctatt	aaaacagaaa	atggatgaac	ttcataagaa	gttgcattcag	gtggtggaga	60
catcccatga	ggatctgccc	gcttcccagg	aaaggtcoga	ggttaatcca	gcacgtatgg	120
ggccaagtgt	aggctcccag	caggaactga	gagcgccatg	tcttccagta	acctatcagc	180
agacaccagt	gaacatggaa	aagaacccaa	gagaggcacc	tcctgttggt	cctcctttgg	240
caaattgctat	ttctgcagct	ttggtgtccc	cagccaccag	ccagagcatt	gctcctcctg	300
ttcctttgaa	agcccagaca	gtaacagact	ccatgtttgc	agtggccagc	aaagatgctg	360
gatgtgtgaa	taagagtact	catgaattca	agccacagag	tggagcagag	atcaaagaag	420
ggtgtgaaac	acataagggt	gccaacacaa	g			451

<210> 342

<211> 498

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 342

ctcaagcagg	ctattgaaga	ggaaggaggc	gatccagata	atattgaatt	aactgtttca	60
actgatactc	caaacaagaa	accaactaaa	ggcaaaggta	aaaaacatga	agcagatgag	120
ttgagtggag	atgcttctgt	gggaagatga	tgcttttatc	aaggactgtg	aattggagaa	180
tcaagaggca	catgagcaag	atggaaatga	tgaactaaag	gactctgaag	aatttggtga	240
aatgaagaa	gaaaatgtgc	attccaagga	gttactctct	gcagaagaaa	acaagagagc	300
tcatgaatta	atagaggcag	aaggaataga	agatatagaa	aaagaggaca	tcgaaagtca	360
ggaaattgaa	gctcaagaag	gtgaagatga	tacctttcta	acagcccaag	atggtgagga	420
agaagaaaat	gagaaagata	tagcagggtt	ctggtgatgg	cncacaagaa	gtatntaaac	480
ctcttccttc	aaaaaggg					498

<210> 343

<211> 491
 <212> DNA
 <213> Homo sapien

<400> 343
 ccgaccccta ctcggcggcg caactccaca accagtacgg ccccatgaat atgaacatgg 60
 gtatgaacat ggcagcagcc gcggcccacc accaccacca ccaccaccac caccgccgtg 120
 cctttttccg ctatatgcgg cagcagtgca tcaagcagga gctaattctg aagtggatcg 180
 accccgagca actgagcaat cccaagaaga gctgcaacaa aactttcagc accatgcacg 240
 agctgggtgac acacgtctcg gtggagcacg tcggcggccc ggagcagagc aaccacgtct 300
 gcttctggga ggagtgtccg cgcgagggca agcccttcaa ggccaaatac aaactgggtca 360
 accacatccg cgtgcacaca ggcgagaaac ccttccttgc ccttcgggtg gtggcaaagt 420
 cttcgcgcgc tccgagaacc tcaagatcca caaaaggacc acacagggga gaagccgtcc 480
 agtggagttg a 491

<210> 344
 <211> 412
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(412)
 <223> n = A,T,C or G

<400> 344
 gtgcgctgtc ttcccgtttg cgtcagggac ctgcccact cagtggccgc catggcatca 60
 gatgaaggca aactttttgt tggagggctg agttttgaca ccaatgagca gtcgctggag 120
 caggtcttct caaagtacgg acagatctct gaagtgggtg ttgtgaaaga caggagagacc 180
 cagagatctc ggggattttg gtttgtcacc tttgagaaca ttgacgacgc taaggatgcc 240
 atgatggcca tgaatgggaa gtctgtagat ggacggcaga tccgagtaga ccaggcaggc 300
 aagtcgtcan acaaccgatc ccgtgggtac cgtgggtggct ctgccggggg ccgggggcttc 360
 ttccgtgggg gcccgangac ggggcccgtg ggttctctaa aagaagaggg ga 412

<210> 345
 <211> 498
 <212> DNA
 <213> Homo sapien

<400> 345
 aactagtctc gggccatcct ttctgcgcac ccggtgtcgc tgggctgcac cccgggcccgg 60
 gacgtccgcc gggcacggga gggggccaag atgccgatca ataatcaga gaagccagaa 120
 agctgcgata atgtgaagg tttgttagg tgccggcccc tcaatgagag agagaaatca 180
 atgtgctaca aacaggctgt cagtgtggat gagatgaggg gaactatcac tgtacataag 240
 actgattctt ccaatgaacc tccaaagaca tttacttttg atactgtttt tggaccagag 300
 agtaaacaac ttgatgttta taacttaact gcaagacctt ttattgattc tgtacttgaa 360
 ggctacaatg ggactatttt tgcataatga caaacgggaa caggcaaaac ttttaccatg 420
 gaaagggtgc gagctattcc tgaacttaga ggaataattc cccaatttct ttgctcacia 480
 tatttgggcc atatttgc 498

<210> 346
 <211> 427
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(427)
 <223> n = A,T,C or G

<400> 346
 agatggcggg cgccgtgaga actttgcagg aacagctgga aaaggccaaa gagagtctta 60
 agaacgtgga tgagaacatt cgcaagctca ccggggcggga tccgaatgac gtgaggccca 120
 tccaagccag attgctggcc ctttctgggc ctggtggagg tagaggacgt ggtagtttat 180
 tactgaggcg tggattctca gatagtggag gaggaccccc agccaaacag agagaccttg 240
 aaggggcagt cagtaggctg ggcgggggagc gtcggaccag aagagaatca cgccaggaaa 300
 gcgacccgga ggatgatgat gttaaaaagc cagcattgca gtcttcannt gtagctacct 360
 cccaaagagc gccccacgta gagaccttat ccagggatca aaattttgga tgaaaaaggg 420
 gaaagcc 427

<210> 347
 <211> 280
 <212> DNA
 <213> Homo sapien

<400> 347
 cacagaaagt tctccgctcc cagacatggg tccctcggct tcctgcctcg gaagcgcagc 60
 agcaggcatc gtgggaaggt gaagagcttc cctaaggatg acccgtccaa gccgggtccac 120
 ctcacagcct tcctgggata caaggctggc atgactcaca tcgtgcggga agtcgacagg 180
 ccgggatcca aggtgaacaa gaaggagggtg gtggaggctg tgaccattgt agagacacca 240
 cccatggtgg ttgtgggcat tgtgggctac gtggaaacct 280

<210> 348
 <211> 411
 <212> DNA
 <213> Homo sapien

<400> 348
 caactatgat gtgcctgaaa aatgggcacg attctatact gcagaagtag ttcttgcatt 60
 ggatgcaatc cattccatgg gttttattca cagagatgtg aagcctgata acatgctgct 120
 ggataaatct ggacatttga agtttagcaga ttttgggtact tgtatgaaga tgaataagga 180
 aggcatggta cgatgtgata cagcgggttg aacacctgat tatatttccc ctgaagtatt 240
 aaaatcccaa ggtggtgatg gttattatgg aagagaatgt gactggtggt cggttggggg 300
 atttttatac gaaatgcttg taggtgatac acctttttat gcagattctt tggttgggaac 360
 ttacagtaaa attatgaacc attaaaaatt cacttacctt tcctgatgat a 411

<210> 349
 <211> 408
 <212> DNA
 <213> Homo sapien

<400> 349
 gatgggcacg tctcgggaca actggcacaa gcgcccga aa accgggggca agagaaagcc 60
 ctaccacaag aagcgggaagt atgagttggg gcgcccagct gccaacacca agattggccc 120
 ccgcccacac cacacagtcc gtgtgcgggg aggtacaag aaataaccgtg ccctgagggt 180
 ggacgtgggg aatttctcct ggggctcaga gtgttggtact cgtaaaacaa ggatcatcga 240
 tggtgtctac aatgcatcta ataacgagct ggttcgtacc aagaccctgg tgaagaattg 300
 catcgtgctc atcgacagca caccgtaccg acagtggtag gagtcccact atgcgctgcc 360

cctgggcccgc aagaagggag ccaaactgac ttctgaggaa gaagaaaa

408

<210> 350
 <211> 409
 <212> DNA
 <213> Homo sapien

<400> 350
 gggtccccca gctctgggta cccggctctg catcgcgctg ccatgatggg ccatcgtcca 60
 gtgctcgtgc tcagccagaa cacaagcgt gaatccggaa gaaaagttca atctggaaac 120
 atcaatgctg ccaagactat tgcagatata atccgaacat gtttgggacc caagtccatg 180
 atgaagatgc ttttggaccc aatgggaggc attgtgatga ccaatgatgg caatgccatt 240
 ctctgagaga ttcaagtcca gcatccagcg gccaaagtcca tgatcgaaat tagccggacc 300
 caggatgaag aggttggaga tgggaccaca tcagtaatta ttcttgcagg ggaaatgctg 360
 tctgtagctg agcacttcct ggagcagcag atgcacccaa cagggtgggg 409

<210> 351
 <211> 226
 <212> DNA
 <213> Homo sapien

<400> 351
 aatcccaaac atataactga actcctcaca cccaattgga ccaatctatc accctataga 60
 agaactaatg ttagtataag taacatgaaa acattctcct ccgcataagc ctgcgtcaga 120
 ttaaaacact gaactgacaa ttaacagccc aatatctaca atcaaccaac aagtcattat 180
 taccctcact gtcaacccaa cacaggcatg ctcataagga aagggt 226

<210> 352
 <211> 410
 <212> DNA
 <213> Homo sapien

<400> 352
 gcggaggggc tggctgggca ggagggggtg gcggggcagc agggccgcgg ccatggggag 60
 cttgaaggag gagctgctca aagccatctg gcacgccttc accgcactcg accaggacca 120
 cagcggcaag gtctccaagt cccagctcaa ggctcctttc cataacctgt gcacggtgct 180
 gaaggttcct catgacccag ttgcccttga agagcacttc agggatgatg atgaggggtcc 240
 agtgtccaac cagggctaca tgccttattt aaacagggtc attttggaaa aggtccaaga 300
 caactttgac aagattgaat tcaataggat gtgttggacc ctctgtgtca aaaaaaacct 360
 cacaagaat cccctgctca ttacagaaga agatgcattt aaaatatggg 410

<210> 353
 <211> 380
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

<400> 353
 gagtttattt agaaagtatc atagtgtaaa caaacaatt gtaccacttt gattttcttg 60
 gaatacaaga ctctgtgatgc aaagctgaag ttgtgtgtac aagactcttg acagttgtgc 120

ttctctagga	ggntggggttt	ttttaaaaaa	agaattatct	gngaaccata	cgtgattaat	180
aaagatttcc	tttaaggcan	aggctggtcn	agatgctgct	gttatcttct	gcctcagaca	240
gacagtataa	gnggtcttgt	ttctaagatt	cctaccacca	gttactttgg	gccaagtatc	300
cacatcccct	tgcgtatggg	aggnggggtga	anagtgttgg	atgcaaagng	gttattatgg	360
gaagnagctc	natggtaaaa					380

<210> 354
 <211> 379
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(379)
 <223> n = A,T,C or G

<400> 354						
caacacatct	ttattaaaca	cctgaagtta	ctgggaggag	gccatgatgc	tggacacact	60
gtcaaagtca	atcttctcca	caatgttctt	gggtttaatg	ctctcttctt	ggctacagan	120
gaanatctgc	cccgactngt	cggcactcca	gccgtatttg	ctcatccaca	ccttttagctg	180
gctgtccgac	aganccccga	gcanttcggc	cagcagccan	cggncaatgt	gctggtaagt	240
gatacccaca	acatggcaga	taaactttcg	gacanagtct	tcaaagccag	ttataccttc	300
caagaggtcc	atgttttcat	ccagggcttg	ccanaagcct	ggaaatggca	ggtctccaac	360
aggtccccca	ggtacaaaa					379

<210> 355
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 355						
gtccagagct	gctggtgctc	ccgttcccca	gaccctaccc	ctatccccag	tggagccgga	60
gtgcggggcg	gccccaccac	cgccctcacc	atggtgctgt	tggcagcagc	ggtctgcaca	120
aaagcaggaa	aggctattgt	ttctcgacag	tttgtggaaa	tgaccogaac	tcggattgag	180
ggcttattag	cagcttttcc	aaagctcatg	aacactggaa	aacaacatac	gtttgttgaa	240
acagagagtg	taagatatgt	ctaccagcct	atggagaaac	tgtatatggg	actgatcact	300
accaaaaaca	gcaacatttt	agaagatttg	gagaccctaa	ggctcttctc	aagagtgate	360
cctgaatatt	gcgagcctta	gaagagaatg	aaatatctga	gcactgnttt	gatttgattt	420
ttgcttttga	tgaaaatgtc	gcactgggat	accggggang	aatgttaact	tggcacagat	480
canaaccttt	cacagaaaa					499

<210> 356
 <211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)

<223> n = A,T,C or G

<400> 356

gggcttctgc	tgagggggca	ggcggagctt	gaggaaaccg	cagataagtt	tttttctctt	60
tgaaagatag	agattaatac	aactacttaa	aaaatatagt	caatagggtta	ctaagatatt	120
gcttagcggt	aagtttttaa	cgtaatttta	atagcttaag	attttaagag	aaaatatgaa	180
gacttagaag	agtagcatga	ggaaggaaaa	gataaaagggt	ttctaaaaca	tgacggaggt	240
tgagatgaag	cttcttcatg	gagtaaaaaa	tgtattttaa	agaaaattga	gagaaaggac	300
tacagagccc	cgaattaata	ccaatagaag	ggcaatgctt	ttagattaaa	atgaagggtga	360
cttaaacagc	ttaaagttta	ntttaaaagt	tgtagggtgat	taaaataatt	tgaaggcgat	420
cttttaaaaa	gagatttaac	ccgaagggtga	ttaaaagacc	ttgaaatcca	tgacgccagg	480
gagaattgcc	gtcattttaa	gcctagttaa	c			511

<210> 357

<211> 511

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 357

gatacttcac	atttccctag	ggacgggagc	ccgaggggtc	cgttcgcccc	tcttctcttc	60
gctgggcccga	caccccgcgtg	taggaccgta	acccttagtc	ccaatgcctc	cgtaagcgga	120
gttgagtggt	tgccgtgtgt	tggagctgtg	gaggtgtccc	cggtggcgag	cgcgccaga	180
actgcggtca	cttaagtttt	ccgtgtgcgg	gttgcaagga	gcgtgcgtgc	gtctggtata	240
atttggtctc	ctgagattct	gcttacaaga	aaggagtggg	aaataccctt	ggaaagaaaa	300
ctaaaacagt	aagaaaacca	aaacttattt	ttacatggnt	gtcagcacat	ttaccgatat	360
ggacactttt	cccaataatt	tcctcctggg	ggagacagtg	gattgacagg	ttctcagtcg	420
gaattccaga	aaaatgttaa	ttgatgaaaa	gggtacnatg	tgagcatcat	aaagntaatt	480
attaanacac	tgaaggctga	acacacaagg	g			511

<210> 358

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 358

acggatgaag	atgatgacct	tcaagaaaat	gaagacaata	aacaacataa	agaaagcttg	60
aaaagagtga	cctttgcttt	accagatgat	gcggaaactg	aagatacagg	tgttttaaat	120
gtaaagaaaa	attctgatga	agttaaatcc	tcctttgaaa	aaagacagga	aaagatgaat	180
gaaaaaattg	catctttaga	aaaagagttg	ttagaaaaaa	agcccgtggc	agcttcaggg	240
ggaagtgaca	gcacagaaga	ggccagagaa	cacctcctgg	aggagaccct	acctttgcca	300
tctgcccgat	ggccctgtga	ttacagagga	acccccttca	ctggagattt	ctttaacnga	360
ngatagagat	cngnttgagg	tatgtntcct	taagaaaacc	t		401

<210> 359

<211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 359

gcgatgccccg	cgcgcccagg	acgcctcctc	ccgctgctgg	cccggccggc	ggccctgact	60
gcgctgctgc	tgctgctgct	gggccatggc	ggcggcgggc	gctggggcgc	ccgggcccag	120
gaggcggcgg	cggcggcggc	ggacggggccc	cccgcggcag	acggcgagga	cggacaggac	180
ccgcacagca	agcacctgta	cacggccgac	atgttcacgc	acgggatcca	gagcgcccgc	240
gcacttcgtc	atgttcttcg	cgccctgggt	tggacacttg	ccagcggtt	gcagccgant	300
ttggaatgac	cttggganga	acaaatacaa	cagcatggaa	agaatgccaa	aagtctatgt	360
ggnttaaagt	ggacttgcac	nggccacttc	gactngtgct	cccccaagg	gngggaagat	420
accacactta	aaacttttca	accaagccaa	aaactttgaa	aaccaggtct	cggattcaaa	480
atggaaaact	gatgttcaac	ctgaacaaga	a			511

<210> 360
 <211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 360

tactgggaga	ctttgagatt	gagtccaaac	agctggaagc	agagtcttgg	agtcggataa	60
tagacagcaa	gtttctaaaa	cagcaaaaga	aagatgtggt	caaacggcaa	gaagtaatat	120
atgagttgat	gcagacagag	tttcatcatg	tcccgactct	caagatcatg	agtgggtgtg	180
cnagccnggg	gatgatggcg	gatctgnntt	ttgagcanca	gatggtagaa	aaagctgggt	240
ccctgttttg	atgagcttga	tcagtatccc	atacccattc	tttccagagg	attcttggag	300
ccggaaagaa	nggagtcttc	ttggtgggat	aaaaagttaa	aaagaacttt	ctcttcaana	360
aggatagggg	gatgtgcttt	gtaaaatcan	tttttcaggg	ngganaatgc	cnnaaccgtt	420
ttaaagaaaa	acatnttggg	naagtttttg	tgggccaaca	ttaccgggtc	ttgtaaacct	480
accttcaaag	aacctttttg	cccaggggta	a			511

<210> 361
 <211> 411
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n = A,T,C or G

<400> 361

gctcagcggc	ccgatccac	ggaagcgcgc	tcggaggggt	gggacccggc	cggaccggag	60
atggcgccgc	cagcggggcg	ggcggcggcg	gcggcctcgg	acttgggctc	cgccgcagtg	120

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ctcttggctg tgcacgccgc ggtgaggccg ctggggcgccg ggccagacgc cgaagcacia 180
cttgccggagg ctgcagctta acgcggaccc tgagaagcct ggcgcttncn gctggaactt 240
cttggcgccg gacctggggc ggtaatttga gtggccctga gtcatttcta caccatccag 300
gcccaccaca cgactaagct cacaagaagg ctgaactnnc tgattctnaa cctagaanta 360
cgtgcatcta tcagtgccng aagaaatgac aacataccac tggcaactct g 411

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<210> 362
<211> 511
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

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<400> 362
cgggggaccg ggctgccttg gcccctcagc gctcgcgtct tttccggcag ttggaacgct 60
tctgtttgtc ctcacccgta accgcctgtt gcccctgtc tcagagtccc tcacgcgtcc 120
cctcccgtct ttggctcgtt ggctgccgcc gccggggcct cgccagcctt caagtcgaga 180
ctactggccg aaggggctgc tgcggctctc cgccgtcccc agccctgcct ctccctgggc 240
tctgccatgg caatgacagg ctcaacacct tgctcatcca tgagtaacca cacaaggaa 300
aggggtgacaa tgaccaaagg tgacactgga gaatttttat agcaacctta tcgctcacat 360
gaagaacgag aaatgagaca aaagaagtta gaaaaagggg atggaagaag aaggcctaaa 420
aaaatgaagg agaaaaccaa cttccgaaga tcaaccacat tgcttcggaa anggaaacaa 480
aantttcttt cgtttgaaan aaaaacaaan a 511

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<210> 363
<211> 401
<212> DNA
<213> Homo sapien

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<400> 363
caggatctgg ggagaaagag ccccatccct tctctctctg ccaccatttc ggacaccccg 60
cagggactcg ttttgggatt cgcactgact tcaaggaagg acgcgaaccc ttctctgacc 120
ccagctcggg cggccacctg tctttgccgc ggtgaccctt ctctcatgac cctgcggtgc 180
cttgagccct ccgggaatgg cggggaaggg acgcggagcc agtgggggac cgcggggtcg 240
gcgaggagc catccccgca ggcggcgcgt ctggcgaagg ccctgcggga gctcggtcag 300
acaggatggt actggggaag tatgactgtt aatgaagcca aagagaaatt aaaagaggca 360
ccagaaggaa ctttcttgat tagagatagc tcgcattcag a 401

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<210> 364
<211> 401
<212> DNA
<213> Homo sapien

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<400> 364
agtcaaagg tttttttccc tttttaccat gttttctaca aaaataacct tcaggaaaaa 60
gaaaatcagg aaaaaaattt tttttcaata atcttattcc ctatattaaa ttagatttga 120
agaggattaa cgttgtttta gtttgggtcc agatcagcct tatacaacat ttctaaactc 180
atttgtactt ttaaaaaatt taaacacaga cttctaaaat tacttgatgt aagtaattta 240
aatcacttat gaccaagtta ttaaccttat gaatcagaag tctgaccctt gtaggaaatt 300
atattcacat ataaagtaca tcagatcttt gccatatatt gatgggttatt atgcataaac 360

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acattgagtt gtgttggaag cagatttata aacctgcatg t

401

<210> 365

<211> 361

<212> DNA

<213> Homo sapien

<400> 365

atctggagtt	gcacaaatag	ttcttttagaa	cataaaacta	aatggattta	tacataacag	60
ttacattcag	catttaagag	aggcagtaca	aaaatgtgtt	ctgcttttat	ctgatataaa	120
ttgcatgtaa	taccatgatt	taaacaatat	cagttatatt	aactaatgcc	atgagatata	180
tcttactcag	aacgtctgat	gtttcccata	atagacagaa	aaaatgcagt	tgtatgagca	240
actgagtttc	ttttcatcct	caaattcatt	tgtgatgggtg	ggaagatcta	aggacaatcc	300
ttccattgaa	gaagtaggaa	aaacagttca	gcactgttct	gaactcatca	aaaatgaaat	360
t						361

<210> 366

<211> 401

<212> DNA

<213> Homo sapien

<400> 366

cgaggagcagc	agaggtctag	cagccgggcg	ccgcggggccg	ggggcctgag	gaggccacag	60
gacggggcgtc	ttcccggcta	gtggagccccg	gcgcgggggcc	cgctgcggcc	gcaccgtgag	120
gggaggaggc	cgaggaggac	gcagcgcccg	ctgccggcgg	gaggaagcgc	tccaccaggg	180
cccccgacgg	cactcgttta	accacatccg	cgctctgct	ggaaacgctt	gctggcgccct	240
gtcaccgggtt	ccctccattt	tgaaagggaa	aaaggctctc	cccaccatt	cccctgcccc	300
taggagctgg	agccggagga	gccgcgctca	tggcgttcag	cccgaggcag	atcctgtccc	360
ccgtgcagtg	ggcgaaatgg	acgtggtctg	cggtacgcgg	c		401

<210> 367

<211> 401

<212> DNA

<213> Homo sapien

<400> 367

catggagtcg	ggcaagatgg	cgctcccaa	gaacgctccg	agagatgcct	tggtgatggc	60
acagatcctg	aaggatatgg	gaatcacaga	gtatgaacca	agggttataa	atcaaagtgt	120
ggaatttgct	ttccgttatg	tgactacaat	tctggatgat	gcaaaaattt	attcgagcca	180
tgctaagaaa	cctaagtgtg	atgcagatga	tgtgagactg	gcaatccagt	gtcgtgctga	240
ccaatctttt	acctctcctc	ccccaaagaga	ttttttactg	gatatcgcaa	ggcagaaaaa	300
tcaaaccctt	ttgccactga	ttaagccata	tgcaggacct	agactgccac	ctgatagata	360
ctgcttaaca	gctccaaact	ataggctgaa	gtccttaatt	a		401

<210> 368

<211> 401

<212> DNA

<213> Homo sapien

<400> 368

cggagcggta	ggagcagcaa	tttatccgtg	tgcagcccca	aactggaaag	aagatgctaa	60
ttaaagtga	gacgctgacc	ggaaaggaga	ttgagattga	cattgaacct	acagacaagg	120
tggagcgaat	caaggagcgt	gtggaggaga	aagagggaat	ccccccacaa	cagcagaggc	180
tcatctacag	tggcaagcag	atgaatgatg	agaagacagc	agctgattac	aagattttag	240

gtggttcagt ccttcacctg gtgttggtc tgagaggagg aggtggtctt aggcagtgat 300
 ggacctcca ttttacctct ttacctgtc gtcataatg aggcatacata taccctctca 360
 ctctctggga caccatagcc ctgccccctc cctggatgc c 401

<210> 369
 <211> 174
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(174)
 <223> n = A,T,C or G

<400> 369
 gcgagnnggg cgccaagcgc ggggcccggag cggccttccc ggagtccttt gcgcggcacc 60
 tggcgacaaa atggctgccc gagggagacg ggcggagcct cagggccggg aggcctccggg 120
 ccccgccggg ggtggcgggtg gcgggagccg ttgggctgag tcgggatcgg ggac 174

<210> 370
 <211> 375
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(375)
 <223> n = A,T,C or G

<400> 370
 tgcttttcca actttattta gaaaaacaaa tccaggctcc agtgccccct gtaccctccc 60
 cgaccccagc cataatttaa ataacttana gacagagttg gagggagggg acagganagg 120
 ttgggggtcac ggtggaagga ggaaganagc ccactacagc cgccgcagcg cccgcttctt 180
 gtcggtcttt ttcttggccg ccagcttctt atcgcgctcg ccagcatgct tnttggccat 240
 gggacctca gcccttcccg ggccccctgg ggccccaggg tcggtggagg aagcttcagt 300
 gccactggcc agggcccagc cggcttcggc cctgccgctg ggccccgccc cgcccccggtg 360
 gatctctgtg agcag 375

<210> 371
 <211> 375
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(375)
 <223> n = A,T,C or G

<400> 371
 taaattctaa aaaatatttt aatacttgaa aacttctaaa acaaaaggta aggtaacatg 60
 ttctttcaaa agtgaatttc acatgcaaac cattaattat atttatttta ctgngagata 120
 aaagcaaaac ataacattcg gagaaagaga ccagtaactg acctatttat tttatattat 180
 attaatgnga atcctcatta gaaatgtgat aacgttattg cacaaacaaa accgtgggca 240
 gaaacatccc agcaatgcag gggcgcccat accgggttac aagggatgtc cagcatgtgt 300

ttccctggaa cactcanagt ctgcactttt cctgcaaagt ggaccatgtc tgattattta 360
 ttatgaaaga acact 375

<210> 372
 <211> 164
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(164)
 <223> n = A,T,C or G

<400> 372
 cgctctgtnt cctcaacctc tacctggcgg aggttatatg taaagtcaga tgtgccactg 60
 aacttgacag acacaaaatt ctactgcatt tgggctttat aatggcaagc ctgctctttt 120
 tagtggtgaa cttgacttgc gcaatgctag ttcattggaga tgtc 164

<210> 373
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 373
 gcgctgttcg cctttgccta cctgcagctg tggcggtctg tctgtaccg cgagcggcgg 60
 ctgagttacc agagcctctg cctcttcctc tgtctcctgt gggcagcgt caggaccacc 120
 ctcttctccg ccgccttctc gctcagcggc tccctgccct tgctccggcc gcccgctcac 180
 ctgcacttct tccccactg gctgctctac tgcttccct cctgtctcca gttctccacg 240
 ctctgtctcc tcaacctcta cctggcggag gttatatgta aagtcagatg tgccactgaa 300
 cttgacagac acaaaaattct actgcatttg ggctttataa tggcaagcct gctcttttta 360
 gtggtgaact tgacttgccg aatgctagtt catggagatg t 401

<210> 374
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 374
 ggaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagttcg 60
 aacttggtaa cctgtgtatg gtgactggag gtgctaacct aggaagaatt ggtgtgatca 120
 ccaacagaga gaggcaccct ggatcttttg acgtggttca cgtgaaagat gccaatggca 180
 acagctttgc cactcgactt tccaacattt ttgttatttg caagggcaac aaaccatgga 240
 tttctcttcc ccgaggaaag ggtatccgcc tcaccattgc tgaagagaga gacaaaagac 300
 tggcggccaa acagagcagt ggttgaaatg ggtccctggg tgacatgtca gatctttgta 360
 cgtaattaaa aatattgtgg caggattaat agcaaaaaaa a 401

<210> 375
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 375
 gagcggagtc cgctggctga cccgagcgt ggtctccgcc gggaaccctg gggcatggag 60
 aggtctgagt acctcggccg cggcgcacgc tgcacgcgg agccaggccg aggacgtgag 120

ggtggagggc	tcctttcccg	tgaccatgct	tccgggagac	ggtgtggggc	ctgagctgat	180
gcacgccgtc	aaggaggtgt	tcaaggctgc	cgctgtccca	gtggagttcc	aggagcacca	240
cctgagtgag	gtgcagaata	tggcatctga	ggagaagctg	gagcaggtgc	tgagttccat	300
gaaggagaac	aaagtggcca	tcattggaaa	gattcatacc	ccgatggagt	ataaggggga	360
gctagcctcc	tatgatatgc	ggctgaggcg	taagttggac	t		401

<210> 376

<211> 284

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(284)

<223> n = A,T,C or G

<400> 376

ggaacaaggt	cgtgaaaaaa	aaggtcttgg	tgaggtgccg	ccatttcac	tgtcctcatt	60
ctctgcgcct	ttcgagagc	ttccancagc	tggtatgttg	ggccagagca	tccggagggt	120
cacaacctct	gtgggtccgta	ggagccacta	tgaggagggc	cctgggaaga	atttgccatt	180
ttcagtggaa	aacaagtggg	cgttactagc	taagatgtgt	ttgtactttg	gatctgcatt	240
tgctacaccc	ttccttgtan	taagacacca	actgcttaaa	acat		284

<210> 377

<211> 401

<212> DNA

<213> Homo sapien

<400> 377

atztatgtta	ttgcactctc	ggtgtgattt	atcgtatgta	tctgataggt	tttatgaatt	60
gttttgagtt	gtaaactcct	atacccttta	ttaaaatgga	cctaattaag	tgatttatgc	120
tttgtgcaat	ttcttaaata	agatctctct	aggattgaag	ggatccatag	gtatctttca	180
cttagtgtga	agcctagtag	tatactttta	tattcctgaa	gagagaccag	cattaacata	240
aagagagaag	tcttaggaaa	aaatatacct	aagaattatt	tttaaaattc	atactgtgaa	300
ggagaatctg	cctgcctatt	tcctctccaa	atttcagaaa	ataacacaga	gtgctatttg	360
cctgaacttt	aatgagcttg	actttgttat	gattcaggga	g		401

<210> 378

<211> 401

<212> DNA

<213> Homo sapien

<400> 378

ccagaacaca	ggtgtcgtga	aaactacccc	taaaagccaa	aatgggaaag	gaaaagactc	60
atatcaacat	tgctgcatt	ggacacgtag	attcgggcaa	gtccaccact	actggccatc	120
tgatctataa	atgcgggtggc	atcgacaaaa	gaaccattga	aaaatttgag	aaggaggctg	180
ctgagatggg	aaagggtcc	ttcaagtatg	cctgggtctt	ggataaactg	aaagctgagc	240
gtgaacgtgg	tatcaccatt	gatatctcct	tgtggaaatt	tgagaccagc	aagtactatg	300
tgactatcat	tgatgcccc	ggacacagag	actttatcaa	aaacatgatt	acagggacat	360
ctcaggctga	ctgtgctgtc	ctgattgttg	ctgctggtgt	t		401

<210> 379

<211> 401

<212> DNA

<213> Homo sapien

<400> 379

tcagatatca	ggtggcttct	tcaaattgatt	tttaagtatc	tcgatgatga	tgaagaacaa	60
agacatcaat	caggattcag	gaagacagct	tttgcgga	atgcttaaag	ggaagcatca	120
aggattggtg	ttgatatttg	aaagtttaag	agtgggtatac	ttttattcag	tcaacacatg	180
acaaatgtaa	aaggcactca	tttggtgttc	ctggaagaag	cctggcagca	ttccattcag	240
acatctgccc	tttcatcgct	ccacttttta	cttattgcag	tcctttcagt	ctgaatattt	300
cctcctgacg	catcttctgc	cgtccgaaat	gactccctgc	tcccagatcc	tgtagccctt	360
attattgaca	cctttcattt	agaaatttag	cacatgtcac	a		401

<210> 380

<211> 401

<212> DNA

<213> Homo sapien

<400> 380

cctgactctc	tgaggctcat	tttgcagttg	ttgaaattgt	ccccgcagtt	ttcaatcatg	60
tctgaaccaa	tcagagtcct	tgtgactgga	gcagctggtc	aaattgcata	ttcactgctg	120
tacagtattg	gaaatggatc	tgtctttggt	aaagatcagc	ctataattct	tgtgctgttg	180
gatatcacc	ccatgatggg	tgtcctggac	ggtgtcctaa	tggaactgca	agactgtgcc	240
cttcccctcc	tgaaagatgt	catcgcaaca	gataaagaag	acgttgcctt	caaagacctg	300
gatgtggcca	ttcttgtggg	ctccatgcca	agaagggaag	gcatggagag	aaaagattta	360
ctgaaagcaa	atgtgaaaat	cttcaaatac	cagggtgcag	c		401

<210> 381

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 381

ggggcttcgc	tggcagtctg	aacggcaagc	ttgagcaacg	cggtaaaaat	attgcttcgg	60
tgggtgacgc	ggtacagctg	tccaagggcn	ttngtaacgg	gaatgccgaa	gcgtgggaaa	120
aaggagcggg	tggcgggaaga	cggggatgag	ctcaggacag	agccagaggc	caagaagagt	180
aagacggccg	caaagaaaaa	tgacaaagag	gcagcaggag	agggcccagc	cctgtatgag	240
gacccccag	atcagaaaac	ctcaccagct	ggcaaacctg	ccacactcaa	gatctgctct	300
tggaatgtgg	atgggcttcg	agcctggatt	aagaagaaag	gattagattg	ggtaaaggaa	360
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<210> 382

<211> 491

<212> DNA

<213> Homo sapien

<400> 382

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cccgccgctg	tgcattgcag	cattatttca	gttcaaaatg	aactatatgc	ctggcaccgc	180
cagcctcatc	gaggacattg	acaaaaagca	cttggttctg	cttcgagatg	gaaggacact	240

tataggcttt	ttaagaagca	ttgatcaatt	tgcaaaactta	gtgctacatc	agactgtgga	300
gcgtattcat	gtgggcaaaa	aatacgggtga	tattcctcga	gggatttttg	tggtcagagg	360
agaaaatgtg	gtcctactag	gagaaataga	cttggaaaag	gagagtgaca	caccctcca	420
gcaagtatcc	attgaagaaa	ttctagaaga	acaaagggtg	gaacagcaga	ccaagctgga	480
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<210> 383

<211> 491

<212> DNA

<213> Homo sapien

<400> 383

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agtgggaagat	gtacggccac	ctcaciaaagt	aacggactac	tcctcatcca	gtgaggagtc	180
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<210> 384

<211> 491

<212> DNA

<213> Homo sapien

<400> 384

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cgggagcggg	ggcggaagt	tccctgaagg	agcgagacag	ggagggacag	ggcagaggag	180
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aaactgcagg	cacaagtgcg	cattgggtggg	aaaggaactg	ctcgcagaaa	gaagaagggtg	420
gttcatagaa	cagccacagc	agatgacaaa	aaacttcagt	tctccttaaa	gaagttaggg	480
gtaaacaata	t					491

<210> 385

<211> 483

<212> DNA

<213> Homo sapien

<400> 385

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gcctgccacc	tcctatgtgc	ggaccaccat	caacaagaat	gctcgcgcca	cgctcagcag	300
catcagacac	atgatccgca	agaacaagta	ccgccccgac	ctgcgcatgg	cagccatccg	360
cagggccagc	gccatcctgc	gcagccagaa	gcctgtgatg	gtgaagagga	agcggacccg	420
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cct						483

<210> 386
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 386
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 ttagtttcaa aatgctgctt ctcttatcat tagtctagta attgttgaac ttttctgcaa 180
 actgcatttt acaaaattga aacttggaag ctgtattaac tttttagttt aaacattgta 240
 tttaaataaac tatactataa taaacagttt gggtttgtat tttttaaatt gtattatcca 300
 gcctttttaa aattaaaagc taaataatga aaataaacca attaaaacat acttttactc 360
 tcagatatac aggtatttac attatgaaaa aactgaacaa agttttaaca atactgagct 420
 ttaagaattt agccagcagg gaaaatttcc aggtttgaga atgttctaata gtaaatattt 480
 aatcataata c 491

<210> 387
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 387
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 tacactgagc ctggggacca cagaggagaa ggcagcagct gaggcggctg tgcccaggac 180
 cattggggcc gagctgatgg agctgggtgc gagaaacact ggctgagcc acgaattatg 240
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 ctcagggcag gtctgccacg accagcagag gctggagggt atctttgcag acctggctcg 420
 ccggaaggac gacgcccagc agcgcagttg ggcactatat gaggatgagg gtgtcatccg 480
 ctgctaccta g 491

<210> 388
 <211> 491
 <212> DNA
 <213> Homo sapien

<400> 388
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 catcgctggg tcaatagtag ttgccgcagt actcttgaaa ctaggcggct atggtataat 180
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 aacccctga agcttcaccg gcgcagtcac tctcataatc gccacaggac ttacatcctc 420
 attactattc tgcctagcaa actcaaacta cgaacgcact cacagtcgca tcataatcct 480
 ctctcaagga c 491

<210> 389
 <211> 511
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 389

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atgccattat	ctnttaggaa	acaaaagcat	tcaaaattaa	tttgggatta	aagttcaaga	180
ttcanactaa	cctcaaagta	cggcatgtgc	agtgtttaag	tgcaanaagt	attttcattc	240
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<210> 390
 <211> 1984
 <212> DNA
 <213> Homo sapien

<400> 390

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acagtgcaca	gagttaaggc	ataaaaatgt	atcattcttt	ataaaaatct	actgaaaatg	1920
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attd

1984

<210> 391

<211> 429

<212> PRT

<213> Homo sapien

<400> 391

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Val Ala Ala Ala Ser Gly Ala Ala Val Pro Gly Ser Val Gln Leu Ala
 35 40 45

Leu Ser Val Leu His Ala Leu Leu Tyr Ala Ala Leu Phe Ala Phe Ala
 50 55 60

Tyr Leu Gln Leu Trp Arg Leu Leu Leu Tyr Arg Glu Arg Arg Leu Ser
 65 70 75 80

Tyr Gln Ser Leu Cys Leu Phe Leu Cys Leu Leu Trp Ala Ala Leu Arg
 85 90 95

Thr Thr Leu Phe Ser Ala Ala Phe Ser Leu Ser Gly Ser Leu Pro Leu
 100 105 110

Leu Arg Pro Pro Ala His Leu His Phe Phe Pro His Trp Leu Leu Tyr
 115 120 125

Cys Phe Pro Ser Cys Leu Gln Phe Ser Thr Leu Cys Leu Leu Asn Leu
 130 135 140

Tyr Leu Ala Glu Val Ile Cys Lys Val Arg Cys Ala Thr Glu Leu Asp
 145 150 155 160

Arg His Lys Ile Leu Leu His Leu Gly Phe Ile Met Ala Ser Leu Leu
 165 170 175

Phe Leu Val Val Asn Leu Thr Cys Ala Met Leu Val His Gly Asp Val
 180 185 190

Pro Glu Asn Gln Leu Lys Trp Thr Val Phe Val Arg Ala Leu Ile Asn
 195 200 205

Asp Ser Leu Phe Ile Leu Cys Ala Ile Ser Leu Val Cys Tyr Ile Cys
 210 215 220

Lys Ile Thr Lys Met Ser Ser Ala Asn Val Tyr Leu Glu Ser Lys Gly
 225 230 235 240

Met Ser Leu Cys Gln Thr Val Ile Val Gly Ser Val Val Ile Leu Leu

	245		250		255
Tyr Ser Ser Arg Ala Cys Tyr Asn Leu Val Val Val Thr Ile Ser Gln	260		265		270
Asp Thr Leu Glu Ser Pro Phe Asn Tyr Gly Trp Asp Asn Leu Ser Asp	275		280		285
Lys Ala His Val Glu Asp Ile Ser Gly Glu Glu Tyr Ile Val Phe Gly	290		295		300
Met Val Leu Phe Leu Trp Glu His Val Pro Ala Trp Ser Val Val Leu	305		310		315
Phe Phe Arg Ala Gln Arg Leu Asn Gln Asn Leu Ala Pro Ala Gly Met	325		330		335
Ile Asn Ser His Ser Tyr Ser Ser Arg Ala Tyr Phe Phe Asp Asn Pro	340		345		350
Arg Arg Tyr Asp Ser Asp Asp Asp Leu Pro Arg Leu Gly Ser Ser Arg	355		360		365
Glu Gly Ser Leu Pro Asn Ser Gln Ser Leu Gly Trp Tyr Gly Thr Met	370		375		380
Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr Pro His Leu Asn Gly	385		390		395
Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr Cys Ser Asn Leu Asp	405		410		415
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<210> 392

<211> 1584

<212> DNA

<213> Homo sapiens

<400> 392

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<210> 393
<211> 191
<212> PRT
<213> Homo sapiens
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<400> 393																
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			20					25					30			
Ser	Glu	Met	Ile	Glu	Thr	Gln	Glu	Asp	Ile	Tyr	Val	Gly	Ser	Ile	Glu	
		35					40					45				
Thr	Asp	Arg	Gly	Val	Arg	Glu	Gln	Val	Arg	Phe	Tyr	Asp	Thr	Arg	Gly	
	50					55					60					
Leu	Arg	Asp	Gly	Ala	Glu	Leu	Pro	Arg	His	Cys	Phe	Ser	Cys	Thr	Asp	
65					70					75					80	
Gly	Tyr	Val	Leu	Val	Tyr	Ser	Thr	Asp	Ser	Arg	Glu	Ser	Phe	Gln	Arg	
				85					90					95		
Val	Glu	Leu	Leu	Lys	Lys	Glu	Ile	Asp	Lys	Ser	Lys	Asp	Lys	Lys	Glu	
			100					105					110			
Val	Thr	Ile	Val	Val	Leu	Gly	Asn	Lys	Cys	Asp	Leu	Gln	Glu	Gln	Arg	
		115					120					125				
Arg	Val	Asp	Pro	Asp	Val	Ala	Gln	His	Trp	Ala	Lys	Ser	Glu	Lys	Val	
	130					135					140					
Lys	Leu	Trp	Glu	Val	Ser	Val	Ala	Asp	Arg	Arg	Ser	Leu	Leu	Glu	Pro	
145					150					155					160	
Phe	Val	Tyr	Leu	Ala	Ser	Lys	Met	Thr	Gln	Pro	Gln	Ser	Lys	Ser	Ala	
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<210> 394
 <211> 1937
 <212> DNA
 <213> Homo sapiens

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<210> 395
 <211> 1675
 <212> DNA
 <213> Homo sapiens

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tgggtggttc catgcacaga tggccctagg ggtgacctcc agttttgcgt gtggaccgta 1020
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ggctcgtagt gaggcctcca gagcaggttg tgctgtcccc tgcctctgga agcaatgggg 1140
aatgtggaat ctgtgtgaag tgcccaaata agtctgagtg ctttccctct cttcaacact 1200
caaccctcaa tcccttagca ctgattgatt agagaggtcc cccaaagaaa ccactggttt 1260
tgacccatga agcattagaa ctgcattggt cattcaggag ccactagtca catatgacta 1320
tttaaattta aagtaaattg tatgaaaaat tcatttcttc aattgcatta gccacatttt 1380
gagtattcat gtggctggta gattctgtat tagcaciaag atatggaaca tttccatcac 1440
cacagaaagt tctgttggac agcactgcat tagaatattt tcatactgct cttcctcaat 1500
taatttttgt tgtaaatgtt gatgtcttca ttggatgggt cataatgttc catgaaacct 1560
ctcaagtaca caattgtatg ttctttgtat cccttaccac aaatatctcg ctctgctcat 1620
ttcttttgca gcttctata aagtttgtct tctcatcaa aaaaaaaaaa aaaaa 1675

```

<210> 396

<211> 559

<212> PRT

<213> Homo sapiens

<400> 396

Gly Ser Pro Ser Ser Gly Tyr Pro Ala Leu His Arg Val Ala Met Met
5 10 15

Gly His Arg Pro Val Leu Val Leu Ser Gln Asn Thr Lys Arg Glu Ser
20 25 30

Gly Arg Lys Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile Ala
35 40 45

Asp Ile Ile Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met Leu
50 55 60

Leu Asp Pro Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala Ile
65 70 75 80

Leu Arg Glu Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile Glu
85 90 95

Ile Ser Arg Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser Val
100 105 110

Ile Ile Leu Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu
115 120 125

Gln	Gln	Met	His	Pro	Thr	Val	Val	Ile	Ser	Ala	Tyr	Arg	Lys	Ala	Leu
130						135					140				
Asp	Asp	Met	Ile	Ser	Thr	Leu	Lys	Lys	Ile	Ser	Ile	Pro	Val	Asp	Ile
145					150					155					160
Ser	Asp	Ser	Asp	Met	Met	Leu	Asn	Ile	Ile	Asn	Ser	Ser	Ile	Thr	Thr
				165					170					175	
Lys	Ala	Ile	Ser	Arg	Trp	Ser	Ser	Leu	Ala	Cys	Asn	Ile	Ala	Leu	Asp
			180					185					190		
Ala	Val	Lys	Met	Val	Gln	Phe	Glu	Glu	Asn	Gly	Arg	Lys	Glu	Ile	Asp
		195					200					205			
Ile	Lys	Lys	Tyr	Ala	Arg	Val	Glu	Lys	Ile	Pro	Gly	Gly	Ile	Ile	Glu
	210					215					220				
Asp	Ser	Cys	Val	Leu	Arg	Gly	Val	Met	Ile	Asn	Lys	Asp	Val	Thr	His
225					230					235					240
Pro	Arg	Met	Arg	Arg	Tyr	Ile	Lys	Asn	Pro	Arg	Ile	Val	Leu	Leu	Asp
				245					250					255	
Ser	Ser	Leu	Glu	Tyr	Lys	Lys	Gly	Glu	Ser	Gln	Thr	Asp	Ile	Glu	Ile
			260					265					270		
Thr	Arg	Glu	Glu	Asp	Phe	Thr	Arg	Ile	Leu	Gln	Met	Glu	Glu	Glu	Tyr
		275					280					285			
Ile	Gln	Gln	Leu	Cys	Glu	Asp	Ile	Ile	Gln	Leu	Lys	Pro	Asp	Val	Val
	290					295					300				
Ile	Thr	Glu	Lys	Gly	Ile	Ser	Asp	Leu	Ala	Gln	His	Tyr	Leu	Met	Arg
305					310					315					320
Ala	Asn	Ile	Thr	Ala	Ile	Arg	Arg	Val	Arg	Lys	Thr	Asp	Asn	Asn	Arg
				325					330					335	
Ile	Ala	Arg	Ala	Cys	Gly	Ala	Arg	Ile	Val	Ser	Arg	Pro	Glu	Glu	Leu
			340					345					350		
Arg	Glu	Asp	Asp	Val	Gly	Thr	Gly	Ala	Gly	Leu	Leu	Glu	Ile	Lys	Lys
		355					360					365			
Ile	Gly	Asp	Glu	Tyr	Phe	Thr	Phe	Ile	Thr	Asp	Cys	Lys	Asp	Pro	Lys
	370					375					380				
Ala	Cys	Thr	Ile	Leu	Leu	Arg	Gly	Ala	Ser	Lys	Glu	Ile	Leu	Ser	Glu
385					390					395					400
Val	Glu	Arg	Asn	Leu	Gln	Asp	Ala	Met	Gln	Val	Cys	Arg	Asn	Val	Leu
			405						410					415	

Leu Asp Pro Gln Leu Val Pro Gly Gly Gly Ala Ser Glu Met Ala Val
420 425 430

Ala His Ala Leu Thr Glu Lys Ser Lys Ala Met Thr Gly Val Glu Gln
435 440 445

Trp Pro Tyr Arg Ala Val Ala Gln Ala Leu Glu Val Ile Pro Arg Thr
450 455 460

Leu Ile Gln Asn Cys Gly Ala Ser Thr Ile Arg Leu Leu Thr Ser Leu
465 470 475 480

Arg Ala Lys His Thr Gln Glu Asn Cys Glu Thr Trp Gly Val Asn Gly
485 490 495

Glu Thr Gly Thr Leu Val Asp Met Lys Glu Leu Gly Ile Trp Glu Pro
500 505 510

Leu Ala Val Lys Leu Gln Thr Tyr Lys Thr Ala Val Glu Thr Ala Val
515 520 525

Leu Leu Leu Arg Ile Asp Asp Ile Val Ser Gly His Lys Lys Lys Gly
530 535 540

Asp Asp Gln Ser Arg Gln Gly Gly Ala Pro Asp Ala Gly Gln Glu
545 550 555

<210> 397

<211> 307

<212> PRT

<213> Homo sapiens

<400> 397

Arg Glu Ser Arg Ser Arg Ala Met Glu Glu Glu Ala Ser Ser Pro Gly
5 10 15

Leu Gly Cys Ser Lys Pro His Leu Glu Lys Leu Thr Leu Gly Ile Thr
20 25 30

Arg Ile Leu Glu Ser Ser Pro Gly Val Thr Glu Val Thr Ile Ile Glu
35 40 45

Lys Pro Pro Ala Glu Arg His Met Ile Ser Ser Trp Glu Gln Lys Asn
50 55 60

Asn Cys Val Met Pro Glu Asp Val Lys Asn Phe Tyr Leu Met Thr Asn
65 70 75 80

Gly Phe His Met Thr Trp Ser Val Lys Leu Asp Glu His Ile Ile Pro
85 90 95

Leu Gly Ser Met Ala Ile Asn Ser Ile Ser Lys Leu Thr Gln Leu Thr

100					105					110					
Gln	Ser	Ser	Met	Tyr	Ser	Leu	Pro	Asn	Ala	Pro	Thr	Leu	Ala	Asp	Leu
			115				120					125			
Glu	Asp	Asp	Thr	His	Glu	Ala	Ser	Asp	Asp	Gln	Pro	Glu	Lys	Pro	His
	130					135					140				
Phe	Asp	Ser	Arg	Ser	Val	Ile	Phe	Glu	Leu	Asp	Ser	Cys	Asn	Gly	Ser
145						150					155				160
Gly	Lys	Val	Cys	Leu	Val	Tyr	Lys	Ser	Gly	Lys	Pro	Ala	Leu	Ala	Glu
			165						170					175	
Asp	Thr	Glu	Ile	Trp	Phe	Leu	Asp	Arg	Ala	Leu	Tyr	Trp	His	Phe	Leu
			180					185					190		
Thr	Asp	Thr	Phe	Thr	Ala	Tyr	Tyr	Arg	Leu	Leu	Ile	Thr	His	Leu	Gly
		195					200					205			
Leu	Pro	Gln	Trp	Gln	Tyr	Ala	Phe	Thr	Ser	Tyr	Gly	Ile	Ser	Pro	Gln
	210					215					220				
Ala	Lys	Gln	Trp	Phe	Ser	Met	Tyr	Lys	Pro	Ile	Thr	Tyr	Asn	Thr	Asn
225						230					235				240
Leu	Leu	Thr	Glu	Glu	Thr	Asp	Ser	Phe	Val	Asn	Lys	Leu	Asp	Pro	Ser
			245						250				255		
Lys	Val	Phe	Lys	Ser	Lys	Asn	Lys	Ile	Val	Ile	Pro	Lys	Lys	Lys	Gly
			260					265					270		
Pro	Val	Gln	Pro	Ala	Gly	Gly	Gln	Lys	Gly	Pro	Ser	Gly	Pro	Ser	Gly
		275					280					285			
Pro	Ser	Thr	Ser	Ser	Thr	Ser	Lys	Ser	Ser	Ser	Gly	Ser	Gly	Asn	Pro
	290					295					300				
Thr	Arg	Lys													
305															

<210> 398
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 398
 agaattcggc acgaggattg cctatctcca gtgcaacaac catcaagtgt gctgaaagtc 60
 ttcagccggt tgctgcagca gtggaagaaa gggctacagg tccagtcttg ataagcaccg 120
 ccgactttga ggggcctatg cccagtgcgc cccagaagc tgaaagtcct cttgcctcaa 180
 ccagcaagga ggagaaggat gaatgtgctc tcatttccac tagcatagca gaagaatgtg 240

```

aggcttctgt ttccggtgta gttgttgaaa gtgaaaatga gcgagctggc acagtcatgg 300
aagaaaaaga cgggagtggc atcatctcta cgagctcggg ggaagactgt gagggcccag 360
tgtccagtgc tgtccctcaa gaggaaggcg acccctcagt cacaccagcg gaagag      416

```

```

<210> 399
<211> 259
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

```

```

<400> 399
caaagaattc ggcacgaggg ggcgacctgc attcggacgt caccgaggcc atgctgtacg 60
aaaagttcag ccccgcgggg cctgtgctgt ncatccgggt ctgccgngat atgatcacc 120
gccgctccct gggctatgcc tacgncaact tccancaacc ggccgacgct gatcgggctt 180
tggacaccat gaactttgat gtgattnagg gaaanccaat ccttatcntg tnnnaatcat 240
aggnatcctt ctttgacaa      259

```

```

<210> 400
<211> 410
<212> DNA
<213> Homo sapiens

```

```

<400> 400
ggcacgaggg gagagcggac ccagagagag cctgagcagc cccaccgccg ccgccggcct 60
agttaccatc acaccccggg aggagcgcga gctgccgcag ccggccccag tcaccatcac 120
cgcaaccatg agcagcggag ccgagaccca gcagccgccc gccgcccccc cccgccgccc 180
ccgccctcag cgccgcccag accaagcccc gcactacggg cagcggcgca gggagcgggtg 240
gcccgggcgg cctcacatcg gcggcgccctg ccggcgggga caagaaggct atcgcaacga 300
aggttttggg aacagtaaaa tggttcaatg taaggaacgg atatggtttc atcaacagga 360
atgacaccaa ggaagatgta tttgtacacc agactgccat aaagaagaat      410

```

```

<210> 401
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(433)
<223> n = A,T,C or G

```

```

<400> 401
ggnacgagga atcatggcgg ctgcgctgtt cgtgctgctg ggattcgcgc tgctgggcac 60
ccacggagcc tccggggctg ccggcacagt cttcactacc gtagaagacc ttggctccaa 120
gatactcctc acctgtcctt tgaatgacag cgccacagag gtcacagggc accgctggct 180
gaaggggggg gtggtgctga aggaggacgc gctgcccggc cagaaaacgg agttcaaggt 240
ggactccgac gaccagtggg gagagtactc ctgcgtcttc ctccccgagc ccatgggcac 300
ggccaacatc cagctccacg ggctcccgag agtgaaggcc gtgaagtcgt cagaacacat 360
caacgagggg gagacggcca tgctggtctg caagtcagag tccgtgccac ctgtcactga 420
ctgggcctgg tac      433

```

<210> 402
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 402
 ggcacgagge tcggactgag caggactttc cttatcccag ttgattgtgc agaatacact 60
 gcctgtcgct tgtcttctat tcaccatggc ttcttctgat atccagggtga aagaactgga 120
 gaagcgtgcc tcaggccagg cttttgagct gattctcagc cctcgggtcaa aaggatctgt 180
 tccagaattc cccctttccc ctccaaagaa gaaggatctt tccctggagg aaattcagaa 240
 gaaattagaa gctgcagaag aaagacgcaa gtcccatgaa gctgaggtct tgaagcagct 300
 ggctgagaaa cgagagcacg agaaagaagt gcttcagaag gcaatagaag agaacaacaa 360
 cttcagtaaa atggcagaag agaaactgac ccacaaaatg gaagctaata aagagaaccg 420
 agaggcacia atgg 434

<210> 403
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 403
 ggcacgagga actgctgttg ccattcaaac cattgaggag catcctgcat cttttgactg 60
 gagctctttt aagccaatgg gatttgaagt atcatttctg aagtttcttg aggagtctgc 120
 agtgaagcag aagaaaaata ctgacaaaga ccacccgaat actggaaaca aaaaaggatc 180
 ccattcaaat tcaagaaaaa atattgataa gactgctgtg actagtggaa atcatgtatg 240
 tccttgtaaa gaaagcgaaa cgtttgataa gtttgccaat ccacacagc ttcagtgcag 300
 tgataatgta aaaattgttt tagacaagaa tcttaaagat tgcactgagc ttgtcttaaa 360
 gcaacttcag gaaatgaaac ctaccgtcag tctgaaaaaa cttgaagtac attcaaata 420
 tccagatatg tctgt 435

<210> 404
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 404
 aaagaattcg gcacgaggcg ccgctccgcc acgaccaccg ccgctcctg ccctgcagcc 60
 accgccaccg cctgtgtcgc cgccgcctcg ggaccggctg tatgattagg ccacaatctt 120
 caatgagtaa acatattcct caattctgtg gtgttcttg tccacacattt atggagtctt 180
 tgaaggcgag tggagattac tgccaggcac agcacgacct ctatgcagac aagtgaactg 240
 tagaaactga ttactgctcc accaagaagc ccccataaga gtgggttatcc tggacacaga 300
 agtgttgaat tgaaatccac agagcatttt acaagagttc tgacctggat ggggtaaacc 360
 tcagtgcact tcttttctgt tggcctcagt attactggat tgaagaattg ctgctt 416

<210> 405
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 405
 ggcacgaggg ctgccggagg gtcgttttaa agggcccgcg cgttgccgcc ccctcggccc 60
 gccatgctgc tatccgtgcc gctgctgctc ggctcctcgc gcctggccgt cgccgagcct 120
 gccgtctact tcaaggagca gtttctggac ggagacgggt ggacttcccg ctggatcgaa 180

```

tccaaacaca agtcagattt tggcaaattc gttctcagtt ccggcaagtt ctacggtgac 240
gaggagaaag ataaagggtt gcagacaagc caggatgcac gcttttatgc tctgtcggcc 300
agtttcgagc ctttcagcaa caaaggccag acgctggtgg tgcagttcac ggtgaaacat 360
gagcagaaca tcgactgtgg gggcggctat gtgaagctgt ttcctaatag tttggaccag 420
acagacatgc acgga                                         435

```

```

<210> 406
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A,T,C or G

```

```

<400> 406
gcccaaacc actccacctt actaccagac aaccttagcc aaaccattta cccaaataaa 60
gtataggcga tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 240
cctaagaaca gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag 300
gtagaggcga caaacctacc gagcctggtg atagctgggt gtccaagata gaatccttagt 360
tcaactttaa atttgcccac agaaccctct aaatcccctt gnaaatttaa ctgntagtcc 420
aaag                                         424

```

```

<210> 407
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<400> 407
gctcctaccg gcgcacgtgg tgccgccgct gctgcctccc gctcgccctg aaccagtgcc 60
ctgcagccat ggctcccggc cagctcgccct tatttagtgt ctctgacaaa accggccttg 120
tggaatttgc aagaaacctg accgctcttg gtttgaatct ggctcgcttc ggagggactg 180
caaaagctct cagggatgct ggtctggcag tcagagatgt ctctgagttg acgggatttc 240
ctgaaatggt ggggggacgt gtgaaaactt tgcctcctgc agtccatgct ggaatcctag 300
ctcgtaatat tccagaagat aatgctgaca tggccagact tgatttcaat cttataagag 360
ttgttgccctg caatctctat ccctttgtaa agacagtggc ttctccaggt gtaagtgttg 420
agg                                         423

```

```

<210> 408
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<400> 408
gaaaaaaaat agcttactga attctataag atgtgtggga atctcaccta tcaaaaatag 60
gtaaaaagag cctccaaacc tgctttgatt ttattcacct attcttttag gccaggaact 120
aatttacctc tcactatcct gttccctctt gctatcttgt ggagtctcta aagacaaagg 180
tataaagagc ttttggtagg tgaattaata atcaactaga tggcatttcc aaatgggatt 240
gcacatactg tggggcaagt cccaagtga cttcaaagtg agacgtttat ttgagtaatc 300
cttcagagatt aacaataatc ataatagcag ttaccacttc ctgagtactt tctatatgcc 360
atgtattgag cttgctcact tctttatgtg gattcttatt taatcttaat accaagatga 420

```

ggtg

424

<210> 409

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(398)

<223> n = A,T,C or G

<400> 409

```

gctcgactct tagcttgtcg gggacggtaa ccgggacccg gtgtctgctc ctgtcgccctt 60
cgcttcctaa tcctagcca ctatgcgtga gtgcatctcc atccacgttg gccaggctgg 120
tgtccagatt ggcaatgcct gctgggagct ctactgcctg gaacacggca tccagcccca 180
tggccagatg ccaagtgaca agaccattgg gggaggagat gactccttca acaccttctt 240
cagtgaagac ggcgctggca agcacgtgcc ccgggctgng tttgtagact tggaacccac 300
agtnattgat gaagntcgna ctggcaccta cccgcaggtc ttncaccctg ancanntcat 360
nacaggcaag gaagatgctg ncaaataact atgcccga 398

```

<210> 410

<211> 423

<212> DNA

<213> Homo sapiens

<400> 410

```

gccccacccc acctgcccgc tgcggctctc cgcgggagat ctcaccgttc tggagacagg 60
gctcgctcgc tctcacgctg cccggccagc ccgcttctct gcccgagacc atgaatctca 120
gtagcgccag tagcacggag gaaaaggcag tgacgaccgt gctctggggc tgcgagctca 180
gtcaggagag gcggacttgg accttcagac cccagctgga ggggaagcag agctgcaggc 240
tgttgcttca tacgatttgc ttggggggaga aagccaaaga ggagatgcat cgcgtggaga 300
tcctgcccc agcaaaccag gaggacaaga agatgcagcc ggtcaccatt gcctcactcc 360
aggcctcagt cctccccatg gtctccatgg taggagtgca gctttctccc ccagttactt 420
tcc 423

```

<210> 411

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(424)

<223> n = A,T,C or G

<400> 411

```

gcggaggcga ctagcgggcg cgggagcggc gccgagaggc cgtgcgggac gcgggcgcca 60
ggaccggccg aacgcagagg ttgattcttc accacactga aaccattagg aaaaatcctt 120
gtgggttaaca gcagaggcct cagagtgtaa cctgtactcg ggcctagaaa ttatttaaaa 180
tggcgactga tacgtctcaa ggtgaactcg tccatcctaa ggcactccca cttatagtag 240
gagctcagct gatccacgcg gacaagttag gtgagaaggt agaagatagc accatgccga 300
ttcgtcgaac tgtgaattct acccgggaaa ctctcccaa aagcaagctt gctgaagggg 360
aggaagaaan gccagaacca gacataagtt cagaggaatc tgtctccact gtagaagaac 420

```

aaga

424

<210> 412
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 412
 ggacgaggg gaagccggcg ccagttcgcg gggctccggg ccgccactca gagctatgag 60
 ctacggccgc cccctcccg atgtggaggg tatgacctcc ctcaaggtgg acaacctgac 120
 ctaccgcacc tcgcccgaca cgctgagggc cgtcttcgag aagtacgggc gcgtcggcga 180
 cgtgtacatc ccgcgggac gctacaccaa ggagtccgc ggcttcgcct tcgttcgctt 240
 tcacgacaag cgcgacgctg aggacgctat ggatgccatg gacggggccg tgctggacgg 300
 ccgcgagctg cgggtgcaaa tggcgcgcta cggccgcccc ccggactcac accacagccg 360
 ccggggaccg ccaccccgca ggtacggggg cgggtggctac ggacgccgga gccgcagccc 420
 taggcggcgt 430

<210> 413
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 413
 ggacgaggt cggcccggcc atcttgtggg aagagctgaa gcaggcgctc ttggctcggc 60
 gcggcccgct gcaatccgtg gaggaacgcg ccgccgagcc accatcatgc ctgggcactt 120
 acaggaaggc ttcggctgctg tggtcaccaa ccgattcgac cagttatttg acgacgaatc 180
 ggaccccttc gaggtgctga aggcagcaga gaacaagaaa aaagaagccg gcgggggcgg 240
 cgttgggggc cctggggcca agagcgcagc tcaggccgcg gccagacca actccaacgc 300
 ggcaggcaaa cagctgcgca aggagtccca gaaagaccgc aagaaccgcg tggccccag 360
 cgttggcgtg gttgacaaga aagaggagac gcagccgccc gtggcgctta agaaagaagg 420
 aataagacg 429

<210> 414
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 414
 ggacgagga cgggcccggc tgccggcccc cgctctgccc tgcataataa aatggctaata 60
 caggtgaatg gtaatgcggt acagttaaaa gaagaggaag aaccaatgga tacttccagt 120
 gtaactcaca cagaacacta caagacactg atagaggcag gcctcccaca gaaggtggca 180
 gaaagacttg atgaaatatt tcagacagga ttggtagctt atgtcgatct tgatgaaaga 240
 gcaattgatg ctctcaggga atttaatgaa gaaggagctc tgtctgtact acagcagttc 300
 aaggaaagtg acttatcaca tgttcagaac aaaagtgcac ttttatgtgg agttatgaag 360
 acctacaggc agagagagaa acaggggagc aaggtgcaag agtccacaaa gggacctgat 420
 gaagcgaag 429

<210> 415
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(398)

<223> n = A,T,C or G

<400> 415

```
gcggtcgtaa gggctgagga tttttgggtcc gcacgctcct gctcctgact caccgctgtt 60
cgctctcgcc gaggaacaag tcggtcagga agcccgcgcg caacagccat ggcttttaag 120
gataccggaa aaacacccgt ggagccggag gtggcaattc accgaattcg aatcacccta 180
acaagccgca acgtaaaaatc cttggaaaag gtgtgtgctg acttgataag aggcgcaaaa 240
gaaaagaatc tcaaagtact ttgagaatca ctacaagaaa aactccttgt ggtgaagggt 300
ctaagacgtg ggatcgtttc cagatgagaa ttcacaagcg actcattgac ttgcacagtc 360
cttctgagat tgtaagcan attacttcca tcantatt 398
```

<210> 416

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(269)

<223> n = A,T,C or G

<400> 416

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<210> 424

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<213> Homo sapiens

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 50 55 60
 Cys Glu Ala Cys Gly Lys Ala Thr Asp Pro Gly Arg Leu Leu Leu Cys
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 Asp Asp Cys Asp Ile Ser Tyr His Thr Tyr Cys Leu Asp Pro Pro Leu
 85 90 95
 Gln Thr Val Pro Lys Gly Gly Trp Lys Cys Lys Trp Cys Val Trp Cys
 100 105 110
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 115 120 125
 Asn Tyr Thr Gln Cys Ala Pro Cys Ala Ser Leu Ser Ser Cys Pro Val
 130 135 140
 Cys Tyr Arg Asn Tyr Arg Glu Glu Asp Leu Ile Leu Gln Cys Arg Gln
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 Cys Asp Arg Trp Met His Ala Val Cys Gln Asn Leu Asn Thr Glu Glu
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 Glu Val Glu Asn Val Ala Asp Ile Gly Phe Asp Cys Ser Met Cys Arg
 180 185 190
 Pro Tyr Met Pro Ala Ser Asn Val Pro Ser Ser Asp Cys Cys Glu Ser
 195 200 205
 Ser Leu Val Ala Gln Ile Val Thr Lys Val Lys Glu Leu Asp Pro Pro
 210 215 220
 Lys Thr Tyr Thr Gln Asp Gly Val Cys Leu Thr Glu Ser Gly Met Thr
 225 230 235 240
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 245 250 255
 Pro Lys Leu Lys Leu Lys Ile Ile Asn Gln Asn Ser Val Ala Val Leu
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 Asp Asp Ser Arg Glu Gly Glu Leu Met Asp Cys Asp Gly Lys Ser Glu
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Ser Ser Pro Glu Arg Glu Ala Val Asp Asp Glu Thr Lys Gly Val Glu
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 Gly Thr Asp Gly Val Lys Lys Arg Lys Arg Lys Pro Tyr Arg Pro Gly
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 Pro Ala Asp Asp Pro Leu Ala Asp Ile Ser Glu Val Leu Asn Thr Asp
 485 490 495
 Asp Asp Ile Leu Gly Ile Ile Ser Asp Asp Leu Ala Lys Ser Val Asp
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 His Ser Asp Ile Gly Pro Val Thr Asp Asp Pro Ser Ser Leu Pro Gln
 515 520 525
 Pro Asn Val Asn Gln Ser Ser Arg Pro Leu Ser Glu Glu Gln Leu Asp
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 Gly Ile Leu Ser Pro Glu Leu Asp Lys Met Val Thr Asp Gly Ala Ile
 545 550 555 560
 Leu Gly Lys Leu Tyr Lys Ile Pro Glu Leu Gly Gly Lys Asp Val Glu
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 Asp Leu Phe Thr Ala Val Leu Ser Pro Ala Asn Thr Gln Pro Thr Pro
 580 585 590

Leu Pro Gln Pro Pro Pro Pro Thr Gln Leu Leu Pro Ile His Asn Gln
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 Asp Ala Phe Ser Arg Met Pro Leu Met Asn Gly Leu Ile Gly Ser Ser
 610 615 620
 Pro His Leu Pro His Asn Ser Leu Pro Pro Gly Ser Gly Leu Gly Thr
 625 630 635 640
 Phe Ser Ala Ile Ala Gln Ser Ser Tyr Pro Asp Ala Arg Asp Lys Asn
 645 650 655
 Ser Ala Phe Asn Pro Met Ala Ser Asp Pro Asn Asn Ser Trp Thr Ser
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 Ser Ala Pro Thr Val Glu Gly Glu Asn Asp Thr Met Ser Asn Ala Gln
 675 680 685
 Arg Ser Thr Leu Lys Trp Glu Lys Glu Glu Ala Leu Gly Glu Met Ala
 690 695 700
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 Trp Arg Lys Ala Ser Ser Gln Glu Arg Ala Pro Tyr Val Gln Lys Ala
 740 745 750
 Arg Asp Asn Arg Ala Ala Leu Arg Ile Asn Lys Val Gln Met Ser Asn
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 770 775 780
 Arg Ile Asp Ser Glu Leu Phe Lys Asp Pro Leu Lys Gln Arg Glu Ser
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 Asn Glu Gln Gln Gln Gln Gln Gln Gln Gln Phe Gly Ser Gln His Leu
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 Leu Val Gln Ser Gly Ser Asp Thr Pro Ser Ser Gly Ile Gln Ser Pro
 850 855 860
 Leu Thr Pro Gln Pro Gly Asn Gly Asn Met Ser Pro Ala Gln Ser Phe
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His	Lys	Glu	Leu	Phe	Thr	Lys	Gln	Pro	Pro	Ser	Thr	Pro	Thr	Ser	Thr	885	890	895	
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Ala	Pro	Ser	Arg	Ile	Pro	Ile	Gln	Asp	Ser	Leu	Ser	Gln	Ala	Gln	Thr	915	920	925	
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Arg	Pro	Pro	Ser	Pro	Met	Asp	Pro	Tyr	Ala	Lys	Met	Val	Gly	Thr	Pro	945	950	955	960
Arg	Pro	Pro	Pro	Val	Gly	His	Ser	Phe	Ser	Arg	Arg	Asn	Ser	Ala	Ala	965	970	975	
Pro	Val	Glu	Asn	Cys	Thr	Pro	Leu	Ser	Ser	Val	Ser	Arg	Pro	Leu	Gln	980	985	990	
Met	Asn	Glu	Thr	Thr	Ala	Asn	Arg	Pro	Ser	Pro	Val	Arg	Asp	Leu	Cys	995	1000	1005	
Ser	Ser	Ser	Thr	Thr	Asn	Asn	Asp	Pro	Tyr	Ala	Lys	Pro	Pro	Asp	Thr	1010	1015	1020	
Pro	Arg	Pro	Val	Met	Thr	Asp	Gln	Phe	Pro	Lys	Ser	Leu	Gly	Leu	Ser	1025	1030	1035	1040
Arg	Ser	Pro	Val	Val	Ser	Glu	Gln	Thr	Ala	Lys	Gly	Pro	Ile	Ala	Ala	1045	1050	1055	
Gly	Thr	Ser	Asp	His	Phe	Thr	Lys	Pro	Ser	Pro	Arg	Ala	Asp	Val	Phe	1060	1065	1070	
Gln	Arg	Gln	Arg	Ile	Pro	Asp	Ser	Tyr	Ala	Arg	Pro	Leu	Leu	Thr	Pro	1075	1080	1085	
Ala	Pro	Leu	Asp	Ser	Gly	Pro	Gly	Pro	Phe	Lys	Thr	Pro	Met	Gln	Pro	1090	1095	1100	
Pro	Pro	Ser	Ser	Gln	Asp	Pro	Tyr	Gly	Ser	Val	Ser	Gln	Ala	Ser	Arg	1105	1110	1115	1120
Arg	Leu	Ser	Val	Asp	Pro	Tyr	Glu	Arg	Pro	Ala	Leu	Thr	Pro	Arg	Pro	1125	1130	1135	
Ile	Asp	Asn	Phe	Ser	His	Asn	Gln	Ser	Asn	Asp	Pro	Tyr	Ser	Gln	Pro	1140	1145	1150	
Pro	Leu	Thr	Pro	His	Pro	Ala	Val	Asn	Glu	Ser	Phe	Ala	His	Pro	Ser	1155	1160	1165	

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Pro Gly Ser Val Val Glu Ala Ser Ser Asn Leu Arg His Gly Asn Phe
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Arg Pro Pro Gln Gly Leu Pro Asn Gln Leu Pro Val His Pro Asp Leu
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Glu Gln Val Pro Pro Ser Gln Gln Glu Gln Gly His Ser Val His Ser
 1685 1690 1695

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 2980 2985 2990
 Ser Asp Tyr Tyr Ser Gln Leu Ile Tyr Lys Gln Asn Asn Leu Ser Asn
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gttcacagat aattcttttt ttaaaaaaac ccaacctcct agagaagcac aactgtcaag 2700
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aaaaaaaaaa aaaaaaactc gag 2843

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<210> 431
<211> 640
<212> DNA
<213> Homo sapiens

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<400> 431
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ctcagggccc aacagctggc tgcggagctg gaggtggaga tgatggccga tatgtacaac 180
agaatgacca gtgcctgcca ccggaagtgt gtgcctcctc actacaagga agcagagctc 240
tccaagggcg agtctgtgtg cctggaccga tgtgtctcta agtacctgga catccatgag 300
cggatgggca aaaagttgac agagttgtct atgcaggatg aagagctgat gaagaggggtg 360
cagcagagct ctgggcctgc atgaggtccc tgtcagtata caccctgggg tgtacccac 420
cccttcccac ttttaataaac gtgctccctg ttgggtgtca tctgtgaaga ctgccaggcc 480
taggctctct gtagagagtc ttcaagatcc cggagtggta gcgctgtctc ctggtgaagg 540
agtatttgtc aactggaat gtgactgtgt gtgtatgtat gtgtatatat atatatatat 600
atatatataa acaagtttgt tgacacctac aaaaaaaaaa 640

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<210> 432
<211> 2068
<212> DNA
<213> Homo sapiens

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<400> 432
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tcatagtaca tttagaatga ttgcctttga tttttttttt aaattctgtg tgtgtgtgtg 1440
taaaatgccca attaagaaca ctggtttcat tccatgtaag cattaaacag tgtatgtagg 1500

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taaaaaccca aaatgtagtt ctctattaac ctgaaatgta cactagccca gaacagttta 1680
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2068

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<210> 433
 <211> 1723
 <212> DNA
 <213> Homo sapiens

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<400> 433
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cctgttcagc ctgcctttcc acgggtgccg tctcccagcc tgtctgtttc ccaccaggc 600
ccagggggcg cagacaaaaa cctcccggcg tgtggcctgc caaccgggt cccattacc 660
agacagtcac ccacacagtg cagagcgccc ctggacagat gttctctact ccgcccaccc 720
cacctatgat gtacccccac cccgcctatc cgatgccttt catcaccacc attctgggag 780
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aatcctacca tcccaggagg caggcacagc caggagagg ggaggagtgg gcagtgaaga 1440
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1723

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<210> 434
 <211> 1702
 <212> PRT
 <213> Homo sapiens

<400> 434
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			20							25				30			
Leu	Arg	His	Glu	Phe	Asp	Ser	Glu	His	Val	Pro	Asp	Leu	Thr	Lys	Glu		
			35				40							45			
Pro	Tyr	Val	Gln	Asp	Ile	His	Ser	Val	Gly	Ser	Leu	Cys	Lys	Leu	Tyr		
		50				55							60				
Phe	Arg	Glu	Leu	Pro	Asn	Pro	Leu	Leu	Thr	Tyr	Gln	Leu	Tyr	Glu	Lys		
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Phe	Ser	Asp	Ala	Val	Ser	Ala	Ala	Thr	Asp	Glu	Glu	Arg	Leu	Ile	Lys		
				85					90					95			
Ile	His	Asp	Val	Ile	Gln	Gln	Leu	Pro	Pro	Pro	His	Tyr	Arg	Thr	Leu		
			100							105				110			
Glu	Phe	Leu	Met	Arg	His	Leu	Ser	Leu	Leu	Ala	Asp	Tyr	Cys	Ser	Ile		
			115				120							125			
Thr	Asn	Met	His	Ala	Lys	Asn	Leu	Ala	Ile	Val	Trp	Ala	Pro	Asn	Leu		
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Leu	Arg	Ser	Lys	Gln	Ile	Glu	Ser	Ala	Cys	Phe	Ser	Gly	Thr	Ala	Ala		
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Phe	Met	Glu	Val	Arg	Ile	Gln	Ser	Val	Val	Val	Glu	Phe	Ile	Leu	Asn		
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His	Val	Asp	Val	Leu	Phe	Ser	Gly	Arg	Ile	Ser	Met	Ala	Met	Gln	Glu		
			180							185				190			
Gly	Ala	Ala	Ser	Leu	Ser	Arg	Pro	Lys	Ser	Leu	Leu	Val	Ser	Ser	Pro		
			195				200							205			
Ser	Thr	Lys	Leu	Leu	Thr	Leu	Glu	Glu	Ala	Gln	Ala	Arg	Thr	Gln	Ala		
		210				215							220				
Gln	Val	Asn	Ser	Pro	Ile	Val	Thr	Glu	Asn	Lys	Tyr	Ile	Glu	Val	Gly		
225					230								235				
Glu	Gly	Pro	Ala	Ala	Leu	Gln	Gly	Lys	Phe	His	Thr	Ile	Ile	Glu	Phe		
				245				250							255		
Pro	Leu	Glu	Arg	Lys	Arg	Pro	Gln	Asn	Lys	Met	Lys	Lys	Ser	Pro	Val		
			260				265							270			
Gly	Ser	Trp	Arg	Ser	Phe	Phe	Asn	Leu	Gly	Lys	Ser	Ser	Ser	Val	Ser		
			275				280							285			
Lys	Arg	Lys	Leu	Gln	Arg	Asn	Glu	Ser	Glu	Pro	Ser	Glu	Met	Lys	Ala		

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Met	Ala	Leu	Lys	Gly	Gly	Arg	Ala	Glu	Gly	Thr	Leu	Arg	Ser	Ala	Lys
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Ser	Glu	Glu	Ser	Leu	Thr	Ser	Leu	His	Ala	Val	Asp	Gly	Asp	Ser	Lys
				325					330					335	
Leu	Phe	Arg	Pro	Arg	Arg	Pro	Arg	Ser	Ser	Ser	Asp	Ala	Leu	Ser	Ala
			340					345					350		
Ser	Phe	Asn	Gly	Glu	Met	Leu	Gly	Asn	Arg	Cys	Asn	Ser	Tyr	Asp	Asn
		355					360					365			
Leu	Pro	His	Asp	Asn	Glu	Ser	Glu	Glu	Glu	Gly	Gly	Leu	Leu	His	Ile
	370					375					380				
Pro	Ala	Leu	Met	Ser	Pro	His	Ser	Ala	Glu	Asp	Val	Asp	Leu	Ser	Pro
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Pro	Asp	Ile	Gly	Val	Ala	Ser	Leu	Asp	Phe	Asp	Pro	Met	Ser	Phe	Gln
				405					410					415	
Cys	Ser	Pro	Pro	Lys	Ala	Glu	Ser	Glu	Cys	Leu	Glu	Ser	Gly	Ala	Ser
			420					425					430		
Phe	Leu	Asp	Ser	Pro	Gly	Tyr	Ser	Lys	Asp	Lys	Pro	Ser	Ala	Asn	Lys
		435					440					445			
Lys	Asp	Ala	Glu	Thr	Gly	Ser	Ser	Gln	Cys	Gln	Thr	Pro	Gly	Ser	Thr
	450					455					460				
Ala	Ser	Ser	Glu	Pro	Val	Ser	Pro	Leu	Gln	Glu	Lys	Leu	Ser	Pro	Phe
465					470					475					480
Phe	Thr	Leu	Asp	Leu	Ser	Pro	Thr	Glu	Asp	Lys	Ser	Ser	Lys	Pro	Ser
			485						490					495	
Ser	Phe	Thr	Glu	Lys	Val	Val	Tyr	Ala	Phe	Ser	Pro	Lys	Ile	Gly	Arg
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Lys	Leu	Ser	Lys	Ser	Pro	Ser	Met	Ser	Ile	Ser	Glu	Pro	Ile	Ser	Val
		515					520					525			
Thr	Leu	Pro	Pro	Arg	Val	Ser	Glu	Val	Ile	Gly	Thr	Val	Ser	Asn	Thr
	530					535					540				
Thr	Ala	Gln	Asn	Ala	Ser	Ser	Ser	Thr	Trp	Asp	Lys	Cys	Val	Glu	Glu
545					550					555					560
Arg	Asp	Ala	Thr	Asn	Arg	Ser	Pro	Thr	Gln	Ile	Val	Lys	Met	Lys	Thr
				565					570					575	
Asn	Glu	Thr	Val	Ala	Gln	Glu	Ala	Tyr	Glu	Ser	Glu	Val	Gln	Pro	Leu

580					585					590					
Asp	Gln	Val	Ala	Ala	Glu	Glu	Val	Glu	Leu	Pro	Gly	Lys	Glu	Asp	Gln
		595					600					605			
Ser	Val	Ser	Ser	Ser	Gln	Ser	Lys	Ala	Val	Ala	Ser	Gly	Gln	Thr	Gln
	610					615					620				
Thr	Gly	Ala	Val	Thr	His	Asp	Pro	Pro	Gln	Asp	Ser	Val	Pro	Val	Ser
625					630					635					640
Ser	Val	Ser	Leu	Ile	Pro	Pro	Pro	Pro	Pro	Pro	Lys	Asn	Val	Ala	Arg
				645						650				655	
Met	Leu	Ala	Leu	Ala	Leu	Ala	Glu	Ser	Ala	Gln	Gln	Ala	Ser	Thr	Gln
			660					665					670		
Ser	Leu	Lys	Arg	Pro	Gly	Thr	Ser	Gln	Ala	Gly	Tyr	Thr	Asn	Tyr	Gly
		675					680					685			
Asp	Ile	Ala	Val	Ala	Thr	Thr	Glu	Asp	Asn	Leu	Ser	Ser	Ser	Tyr	Ser
	690					695					700				
Ala	Val	Ala	Leu	Asp	Lys	Ala	Tyr	Phe	Gln	Thr	Asp	Arg	Pro	Ala	Glu
705					710					715					720
Gln	Phe	His	Leu	Gln	Asn	Asn	Ala	Pro	Gly	Asn	Cys	Asp	His	Pro	Leu
				725					730					735	
Pro	Glu	Thr	Thr	Ala	Thr	Gly	Asp	Pro	Thr	His	Ser	Asn	Thr	Thr	Glu
			740					745					750		
Ser	Gly	Glu	Gln	His	His	Gln	Val	Asp	Leu	Thr	Gly	Asn	Gln	Pro	His
		755					760					765			
Gln	Ala	Tyr	Leu	Ser	Gly	Asp	Pro	Glu	Lys	Ala	Arg	Ile	Thr	Ser	Val
	770					775					780				
Pro	Leu	Asp	Ser	Glu	Lys	Ser	Asp	Asp	His	Val	Ser	Phe	Pro	Glu	Asp
785					790					795					800
Gln	Ser	Gly	Lys	Asn	Ser	Met	Pro	Thr	Val	Ser	Phe	Leu	Asp	Gln	Asp
				805					810					815	
Gln	Ser	Pro	Pro	Arg	Phe	Tyr	Ser	Gly	Asp	Gln	Pro	Pro	Ser	Tyr	Leu
			820					825					830		
Gly	Ala	Ser	Val	Asp	Lys	Leu	His	His	Pro	Leu	Glu	Phe	Ala	Asp	Lys
		835					840					845			
Ser	Pro	Thr	Pro	Pro	Asn	Leu	Pro	Ser	Asp	Lys	Ile	Tyr	Pro	Pro	Ser
	850					855					860				
Gly	Ser	Pro	Glu	Glu	Asn	Thr	Ser	Thr	Ala	Thr	Met	Thr	Tyr	Met	Thr

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Thr Thr Pro Ala Thr	Ala Gln Met Ser	Thr Lys Glu Ala Ser	Trp Asp			
	885	890	895			
Val Ala Glu Gln Pro Thr Thr	Ala Asp Phe Ala Ala Ala	Thr Leu Gln				
	900	905	910			
Arg Thr His Arg Thr Asn Arg	Pro Leu Pro Pro Pro Pro	Ser Gln Arg				
	915	920	925			
Ser Ala Glu Gln Pro Pro Val	Val Gly Gln Val Gln Ala Ala	Thr Asn				
	930	935	940			
Ile Gly Leu Asn Asn Ser His	Lys Val Gln Gly Val Val Pro	Val Pro				
945	950	955	960			
Glu Arg Pro Pro Glu Pro Arg	Ala Met Asp Asp Pro Ala Ser	Ala Phe				
	965	970	975			
Ile Ser Asp Ser Gly Ala Ala	Ala Ala Gln Cys Pro Met Ala	Thr Ala				
	980	985	990			
Val Gln Pro Gly Leu Pro Glu	Lys Val Arg Asp Gly Ala Arg	Val Pro				
	995	1000	1005			
Leu Leu His Leu Arg Ala Glu	Ser Val Pro Ala His Pro Cys	Gly Phe				
1010	1015	1020				
Pro Ala Pro Leu Pro Pro Thr	Arg Met Met Glu Ser Lys Met	Ile Ala				
1025	1030	1035	1040			
Ala Ile His Ser Ser Ser Ala	Asp Ala Thr Ser Ser Ser Asn	Tyr His				
	1045	1050	1055			
Ser Phe Val Thr Ala Ser Ser	Thr Ser Val Asp Asp Ala Leu	Pro Leu				
	1060	1065	1070			
Pro Leu Pro Val Pro Gln Pro	Lys His Ala Ser Gln Lys Thr	Val Tyr				
	1075	1080	1085			
Ser Ser Phe Ala Arg Pro Asp	Val Thr Thr Glu Pro Phe Gly	Pro Asp				
1090	1095	1100				
Asn Cys Leu His Phe Asn Met	Thr Pro Asn Cys Gln Tyr Arg	Pro Gln				
1105	1110	1115	1120			
Ser Val Pro Pro His His Asn	Lys Leu Glu Gln His Gln Val	Tyr Gly				
	1125	1130	1135			
Ala Arg Ser Glu Pro Pro Ala	Ser Met Gly Leu Arg Tyr Asn	Thr Tyr				
	1140	1145	1150			
Val Ala Pro Gly Arg Asn Ala	Ser Gly His His Ser Lys Pro	Cys Ser				

1155	1160	1165
Arg Val Glu Tyr Val Ser Ser Leu Ser Ser Ser Val Arg Asn Thr Cys 1170	1175	1180
Tyr Pro Glu Asp Ile Pro Pro Tyr Pro Thr Ile Arg Arg Val Gln Ser 1185	1190	1195 1200
Leu His Ala Pro Pro Ser Ser Met Ile Arg Ser Val Pro Ile Ser Arg 1205	1210	1215
Thr Glu Val Pro Pro Asp Asp Glu Pro Ala Tyr Cys Pro Arg Pro Leu 1220	1225	1230
Tyr Gln Tyr Lys Pro Tyr Gln Ser Ser Gln Ala Arg Ser Asp Tyr His 1235	1240	1245
Val Thr Gln Leu Gln Pro Tyr Phe Glu Asn Gly Arg Val His Tyr Arg 1250	1255	1260
Tyr Ser Pro Tyr Ser Ser Ser Ser Ser Tyr Tyr Ser Pro Asp Gly 1265	1270	1275 1280
Ala Leu Cys Asp Val Asp Ala Tyr Gly Thr Val Gln Leu Arg Pro Leu 1285	1290	1295
His Arg Leu Pro Asn Arg Asp Phe Ala Phe Tyr Asn Pro Arg Leu Gln 1300	1305	1310
Gly Lys Ser Leu Tyr Ser Tyr Ala Gly Leu Ala Pro Arg Pro Arg Ala 1315	1320	1325
Asn Val Thr Gly Tyr Phe Ser Pro Asn Asp His Asn Val Val Ser Met 1330	1335	1340
Pro Pro Ala Ala Asp Val Lys His Thr Tyr Thr Ser Trp Asp Leu Glu 1345	1350	1355 1360
Asp Met Glu Lys Tyr Arg Met Gln Ser Ile Arg Arg Glu Ser Arg Ala 1365	1370	1375
Arg Gln Lys Val Lys Gly Pro Val Met Ser Gln Tyr Asp Asn Met Thr 1380	1385	1390
Pro Ala Val Gln Asp Asp Leu Gly Gly Ile Tyr Val Ile His Leu Arg 1395	1400	1405
Ser Lys Ser Asp Pro Gly Lys Thr Gly Leu Leu Ser Val Ala Glu Gly 1410	1415	1420
Lys Glu Ser Arg His Ala Ala Lys Ala Ile Ser Pro Glu Gly Glu Asp 1425	1430	1435 1440
Arg Phe Tyr Arg Arg His Pro Glu Ala Glu Met Asp Arg Ala His His		

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His Gly Gly His Gly Ser Thr Gln Pro Glu Lys Pro Ser Leu Pro Gln		
1460	1465	1470
Lys Gln Ser Ser Leu Arg Ser Arg Lys Leu Pro Asp Met Gly Cys Ser		
1475	1480	1485
Leu Pro Glu His Arg Ala His Gln Glu Ala Ser His Arg Gln Phe Cys		
1490	1495	1500
Glu Ser Lys Asn Gly Pro Pro Tyr Pro Gln Gly Ala Gly Gln Leu Asp		
1505	1510	1515
Tyr Gly Ser Lys Gly Ile Pro Asp Thr Ser Glu Pro Val Ser Tyr His		
1525	1530	1535
Asn Ser Gly Val Lys Tyr Ala Ala Ser Gly Gln Glu Ser Leu Arg Leu		
1540	1545	1550
Asn His Lys Glu Val Arg Leu Ser Lys Glu Met Glu Arg Pro Trp Val		
1555	1560	1565
Arg Gln Pro Ser Ala Pro Glu Lys His Ser Arg Asp Cys Tyr Lys Glu		
1570	1575	1580
Glu Glu His Leu Thr Gln Ser Ile Val Pro Pro Pro Lys Pro Glu Arg		
1585	1590	1595
Ser His Ser Leu Lys Leu His His Thr Gln Asn Val Glu Arg Asp Pro		
1605	1610	1615
Ser Val Leu Tyr Gln Tyr Gln Pro His Gly Lys Arg Gln Ser Ser Val		
1620	1625	1630
Thr Val Val Ser Gln Tyr Asp Asn Leu Glu Asp Tyr His Ser Leu Pro		
1635	1640	1645
Gln His Gln Arg Gly Val Phe Gly Gly Gly Gly Met Gly Thr Tyr Val		
1650	1655	1660
Pro Pro Gly Phe Pro His Pro Gln Ser Arg Thr Tyr Ala Thr Ala Leu		
1665	1670	1675
Gly Gln Gly Ala Phe Leu Pro Ala Glu Leu Ser Leu Gln His Pro Glu		
1685	1690	1695
Thr Gln Ile His Ala Glu		
1700		

<210> 435

<211> 160

<212> PRT

<213> Homo sapiens

<400> 435

Pro Phe Gln Gln Val Gly Arg Cys Asn Pro Ser Pro Gln Thr Arg Pro
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Gly Pro Ile Asp Tyr Lys Arg Asn Leu Pro Arg Arg Gly Leu Ser Gly
35 40 45

Tyr Ser Met Leu Ala Ile Gly Ile Gly Thr Leu Ile Tyr Gly His Trp
50 55 60

Ser Ile Met Lys Trp Asn Arg Glu Arg Arg Arg Leu Gln Ile Glu Asp
65 70 75 80

Phe Glu Ala Arg Ile Ala Leu Leu Pro Leu Leu Gln Ala Glu Thr Asp
85 90 95

Arg Arg Thr Leu Gln Met Leu Arg Glu Asn Leu Glu Glu Glu Ala Ile
100 105 110

Ile Met Lys Asp Val Pro Asp Trp Lys Val Gly Glu Ser Val Phe His
115 120 125

Thr Thr Arg Trp Val Pro Pro Leu Ile Gly Glu Leu Tyr Gly Leu Arg
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Thr Thr Glu Glu Ala Leu His Ala Ser His Gly Phe Met Trp Tyr Thr
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<210> 436

<211> 396

<212> PRT

<213> Homo sapiens

<400> 436

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Asp Gly Glu Asp Gly Gln Asp Pro His Ser Lys His Leu Tyr Thr Ala
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Asp Met Phe Thr His Gly Ile Gln Ser Ala Ala His Phe Val Met Phe
35 40 45

Phe Ala Pro Trp Cys Gly His Cys Gln Arg Leu Gln Pro Thr Trp Asn
50 55 60

Asp Leu Gly Asp Lys Tyr Asn Ser Met Glu Asp Ala Lys Val Tyr Val
65 70 75 80

Ala	Lys	Val	Asp	Cys	Thr	Ala	His	Ser	Asp	Val	Cys	Ser	Ala	Gln	Gly	85	90	95	
Val	Arg	Gly	Tyr	Pro	Thr	Leu	Lys	Leu	Phe	Lys	Pro	Gly	Gln	Glu	Ala	100	105	110	
Val	Lys	Tyr	Gln	Gly	Pro	Arg	Asp	Phe	Gln	Thr	Leu	Glu	Asn	Trp	Met	115	120	125	
Leu	Gln	Thr	Leu	Asn	Glu	Glu	Pro	Val	Thr	Pro	Glu	Pro	Glu	Val	Glu	130	135	140	
Pro	Pro	Ser	Ala	Pro	Glu	Leu	Lys	Gln	Gly	Leu	Tyr	Glu	Leu	Ser	Ala	145	150	155	160
Ser	Asn	Phe	Glu	Leu	His	Val	Ala	Gln	Gly	Asp	His	Phe	Ile	Lys	Phe	165	170	175	
Phe	Ala	Pro	Trp	Cys	Gly	His	Cys	Lys	Ala	Leu	Ala	Pro	Thr	Trp	Glu	180	185	190	
Gln	Leu	Ala	Leu	Gly	Leu	Glu	His	Ser	Glu	Thr	Val	Lys	Ile	Gly	Lys	195	200	205	
Val	Asp	Cys	Thr	Gln	His	Tyr	Glu	Leu	Cys	Ser	Gly	Asn	Gln	Val	Arg	210	215	220	
Gly	Tyr	Pro	Thr	Leu	Leu	Trp	Phe	Arg	Asp	Gly	Lys	Lys	Val	Asp	Gln	225	230	235	240
Tyr	Lys	Gly	Lys	Arg	Asp	Leu	Glu	Ser	Leu	Arg	Glu	Tyr	Val	Glu	Ser	245	250	255	
Gln	Leu	Gln	Arg	Thr	Glu	Thr	Gly	Ala	Thr	Glu	Thr	Val	Thr	Pro	Ser	260	265	270	
Glu	Ala	Pro	Val	Leu	Ala	Ala	Glu	Pro	Glu	Ala	Asp	Lys	Gly	Thr	Val	275	280	285	
Leu	Ala	Leu	Thr	Glu	Asn	Thr	Phe	Asp	Asp	Thr	Ile	Ala	Glu	Gly	Ile	290	295	300	
Thr	Phe	Ile	Lys	Phe	Tyr	Ala	Pro	Trp	Cys	Gly	His	Cys	Lys	Thr	Leu	305	310	315	320
Ala	Pro	Thr	Trp	Glu	Glu	Leu	Ser	Lys	Lys	Glu	Phe	Pro	Gly	Leu	Ala	325	330	335	
Gly	Val	Lys	Ile	Ala	Glu	Val	Asp	Cys	Thr	Ala	Glu	Arg	Asn	Ile	Cys	340	345	350	
Ser	Lys	Tyr	Ser	Val	Arg	Gly	Tyr	Pro	Thr	Leu	Leu	Leu	Phe	Arg	Gly	355	360	365	

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His Arg Phe Val Leu Ser Gln Ala Lys Asp Glu Leu
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Arg Lys Cys Val Pro Pro His Tyr Lys Glu Ala Glu Leu Ser Lys Gly
 35 40 45

Glu Ser Val Cys Leu Asp Arg Cys Val Ser Lys Tyr Leu Asp Ile His
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Glu Arg Met Gly Lys Lys Leu Thr Glu Leu Ser Met Gln Asp Glu Glu
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Leu Met Lys Arg Val Gln Gln Ser Ser Gly Pro Ala
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<210> 438
 <211> 303
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<400> 438
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 35 40 45

Asn Leu Tyr Pro Arg Leu Tyr Pro Glu Leu Ser Gln Tyr Met Gly Leu
 50 55 60

Ser Leu Asn Glu Glu Glu Ile Arg Ala Asn Val Ala Val Val Ser Gly
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Ala Pro Leu Gln Gly Gln Leu Val Ala Arg Pro Ser Ser Ile Asn Tyr
85 90 95

Met Val Ala Pro Val Thr Gly Asn Asp Val Gly Ile Arg Arg Ala Glu
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Ile Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln Asp Gly
115 120 125

Lys Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe Val Gln
130 135 140

Leu Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg Phe Gly
145 150 155 160

Asp Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp Ser Ser
165 170 175

Asp Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys Ile Thr
180 185 190

Met Thr Ile Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys
195 200 205

Asp Ser Thr Gly His Val Gly Phe Ile Phe Lys Asn Gly Lys Ile Thr
210 215 220

Ser Ile Val Lys Asp Ser Ser Ala Ala Arg Asn Gly Leu Leu Thr Glu
225 230 235 240

His Asn Ile Cys Glu Ile Asn Gly Gln Asn Val Ile Gly Leu Lys Asp
245 250 255

Ser Gln Ile Ala Asp Ile Leu Ser Thr Ser Gly Thr Val Val Thr Ile
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Pro Ser Ile Met Lys Ser Leu Met Asp His Thr Ile Pro Glu Val
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<212> PRT

<213> Homo sapiens

<400> 439

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 Ile Ala Phe His Phe Asn Pro Arg Phe Glu Asp Gly Gly Tyr Val Val
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 Phe His Leu Asn Pro Arg Phe Asp Glu Asn Ala Val Val Arg Asn Thr
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 Gln Ile Asp Asn Ser Trp Gly Ser Glu Glu Arg Ser Leu Pro Arg Lys
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Ala His Cys Leu Lys Val Ala Val Asp Gly Gln His Leu Phe Glu Tyr
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<212> DNA
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<400> 442
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aacagaatta aggaaaaaag aaagaaagaa aaagagagag aggaaattcc aggccaattg 120
tggcatagat tttatcatat tctggatttt ttggattctt ttgttttctc atcactggat 180
tcaggaaagc ctgttgtgtc caccatctcc aaaggagggt acctgcaggg aaatgttaac 240
gggaggctgc cttccctggg caacaaggag ccacctgggc aggagaaagt gcagctgaag 300
aggaaagtca ctttactgag gggagtctcc attatca 337

```

```

<210> 443
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<400> 443
gaattcgaac cccttcggat tctaatacaag aaaatgattt gctatgggaa gagaagtttc 60
ctgaaagaac aactgttact gaattacctc agacttcaca tgtatcattc tccgagcctg 120
atattccgtc ctcaaaaagt actgagttac ctgtggactg gagtattaaa acgcgactcc 180
ttttcacctc ttctcaaccc ttacctggg cagatcattt gaaagcacag gaagaagctc 240
aaggtcttgt ccagcattgt agggcaacag aagttacttt gcctaaaagt atacaggatc 300
ccaaactctc ctctgagctc cgttgtacct tccagcagag ccttatctat tggctccacc 360
ctgctttgtc ttggctacca ctgttccctc gtattggagc tgatagaaaa atggctggaa 420
agacaagtcc ttgggtcaa atgatgcaaccc tgcagcatgt tttaatgagt gactgggtctg 480
tgagctttac ttctctatat aatttgctga agacaaaact ttgcccctat ttctacgttt 540
gtacctatca gtttactgtc ctgttccgag cagcaggatt agctggaagt gacttaatca 600
cagctctcat atctccaaca actcgagggt taagagaagc tatgagaaat gaaggtattg 660
aattttctct gcctttaata aaagaaagtg gccataagaa ggagacagca tctggaacaa 720
gcttgggata tggggagga 739

```

```

<210> 444
<211> 738
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

```

```

<400> 444

```



```

ttttttttttt ttcgttnaaa agaaatttta tttctanant ggaatgattt ggatgtgacc 60
tgataaatac agtttgttat tgnngtctca ttaaattaat cagctttttc acactggggg 120
aaagaaacag atgatgatac tagggaatgg aaacaaaatt ggaaacctgg gttatttggg 180
gatttatatt gtactctgca cagttgccct tttttttagg cgtgttccct ggaaaagagg 240
gacggatgaa cctggaagta agtaaaagac attctagggtg tgtagcatca aggcagttaa 300
tatccaagca tcagctttct ctttatacat ctacactgca tggcctgcac caaataagga 360
actgaaccag gggatatgtt ttacctccac agctgcctcc ttccatcana gcacctgat 420
gaacttaatg tctagtcaca cgtcattggc atgttttctc cccagcattt aattacaaag 480
ctttctttct ttggatagga tcagttctta agagcagccc cggtaactgg aggaatggga 540
gccgttttga tganaaaaat gggtttgggtg ttcaggatct ccaattataa atgtagtctc 600
tcagcaccac attccgtaaa gatgatttcc caagtaacgg tatttgacta agttgctcca 660
gagtgttagg ggcaaaccac agttagtaag ctcttatga acaaccccca tatcaagtac 720
tttgtccatt tgcaggca                                     738

```

<210> 445
 <211> 716
 <212> DNA
 <213> Homo sapiens

```

<400> 445
gcgggccgcta gtgctccagc tcgcgctccg ccctcaggca cagcatcccc acgggcctcc 60
acgccaacct gtccgagggc cgccccgtgg gtccggcccc ccgtggcgcc tcatcgctgc 120
tcggcccgga aggtttcttc cttggcaaga tgggattccg ggaggcgggtg gcggccggag 180
acgtggattt gcctcagggtg cggagccgca gctacaggag gatgctcgcg aggaccccca 240
gagctccgcc cggaggggtac tgtgaggccg ttaggagctg gcggtggatg acttccgcat 300
tcaaacactg gagccatcac acggaagcac gaggagggta tcctcggcag ctactcccgg 360
tcgctcaagg tgtctctcgc tcgccctcta ggtgcgggag gagctcgagg cccaactaag 420
ctgcttccgg gagctgctgg gcagggcccc cacgcacgcg gacgggcacc agcacgtgca 480
cgtgctccca ggtggacaga cgcttcgtg ggcctgagca cttgcggccg gcacatgtcc 540
gctcaccgcg tgccgggggc cctggcgcgg gtccctggaag gtaccctagc gggccacacc 600
ctgacagccg agctgatggc gcaccccggc taccctcagt tgccctccac cggcggtctg 660
ggtgaaggcc ccgacgcttt ctctttgctc ttgggaagcg gcttgcattg agcttg 716

```

<210> 446
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(641)
 <223> n = A,T,C or G

```

<400> 446
gctncagctc gcgctccgcc ctcaggcaca gcatccccac gggcctccac gccaacctgt 60
ccgaggnccg ccccggtgggt ccggccccgc gtggcgccct atcgctgctc ggcccggag 120
gcttnttcct tggcaagatg ggattccggg aggcggnggc ggccggagac gtggatttgc 180
ctcagggtgcg gagccgcagc tacaggagga tgctcgcgag gacccccaga gctccgcccg 240
gagggtagct tgaggccggt aggagctggc gnggatgac ttccgcattc aaacactgga 300
gccatcacac ggaagcacga ggagggatc ctccggcagct actcccggtc gctcaagggt 360
tctntcgctc gccctctagg ngcgggagga gctcgaggcc caactaanct gcttccggga 420
gctgctgggc agggccccca cgcacgcgga cgggcaccag cacgtgcacg tgctcccagg 480
nggacagacg ctttcgtggg cctgancact tgcggccggn acatgttccc tcaccgcg 540
gtccggggcc ttggcgcggg tcctggaagg tacctacg gccacaccct gacagccgaa 600

```

ctgatggccc accccggcta ccccgangtgt gcctccaccc g

641

<210> 447

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(652)

<223> n = A,T,C or G

<400> 447

gaattcgaac	cccttcgctt	ttagaaaatt	gtatatgcag	ctggatgaag	gcagcctcac	60
ctttaatgcc	aaccagatg	agggagtga	ctactttatg	tccaagggta	tcctggatga	120
ttcgccaaag	gaaatagcaa	agtttatctt	ctgtacaaga	acactaaatt	ggaaaaaact	180
gagaatctat	cttgatgaaa	ggagagatgt	cttggatgac	cttgtaacat	tgcataattt	240
tagaaatcag	ttcttgccaa	atgcactgag	agaatttttt	cgtcatatcc	atgcccctga	300
agagcgtgga	gagtatcttg	aaactcttat	aacaaagtgc	tcacatagat	tctgtgcttg	360
caaccctgat	ttaatgcgag	aacttgccct	tagtcctgat	gctgtctatg	tactgtgcta	420
ctctttgatt	ctactttcca	ttgacctcac	tagccctcat	gtgaagaata	aaatgtcaaa	480
aaggggaattt	attcgaaata	ccccgcgcgc	tgctcaaaat	attagtgaag	aattttgtan	540
ggcatcttta	tgacaatatc	tacccttatt	gggccatggn	ggctggcata	aaaaagcacc	600
aattggctaa	ggactttcaa	gtttttttact	ttcagaactt	aaaagcttac	cc	652

<210> 448

<211> 677

<212> DNA

<213> Homo sapiens

<400> 448

gaattcgaac	cccttcggcg	cctggcagag	gtgaaggact	ccctggacat	cgagggtcaag	60
cagaacttca	ttgaccccct	ccagaacctg	tgcgagaaag	acctgaagga	gatccagcac	120
cacctgaaga	aactggaggg	ccgccgcctg	gactttgact	acaagaagaa	gcggcagggc	180
aagatccccg	atgaggagct	acgccaggcg	ctggagaagt	tcgaggagtc	caaggagggtg	240
gcagaaacca	gcatgcacaa	cctcctggag	actgacatcg	agcagggtgag	tcagctctcg	300
gccctggtgg	atgcacagct	ggactaccac	cggcaggccg	tgcatatcct	ggacgagctg	360
gcggagaagc	tcaagcgcag	gatgcgggaa	gcttcctcac	gccctaagcg	ggagtataag	420
ccgaagcccc	gggagccctt	tgaccttgga	gagcctgagc	agtccaacgg	gggcttcccc	480
tgcaccacag	cccccaagat	cgcagcttca	tcgtctttcc	gatcttccga	caagcccatc	540
cggaccccta	gccggagcat	gccgcccctg	gaccagccga	gctgcaaggc	gctgtacgac	600
ttcgagcccc	agaacgacgg	ggagctgggc	ttcatgaggg	cgacgtcatc	acgctgacca	660
accagatcga	tgagaac					677

<210> 449

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(603)

<223> n = A,T,C or G

<400> 449
 ttttttgtan aaagagacat ttaatacttc tgttttacaaa attcaggcgt acattttcagt 60
 ttgccctgga ccgtgcccaa agctgtgtgc tcatctctgc gccctcatg tacttctgac 120
 gaggggggtg cagggcaggg cagagcagag cctgggggtcc ggaggcttca ctggaccaca 180
 gggggagggg aatgtgaatg tggcctggcc canagaactc cccatttcat cgattttgca 240
 ttgggcgata gaggaagcag atgtcggggc tgccctgcctt ggtctanagg agatggctgg 300
 ggccacttcc cacaggggtga agtggcagcg gctcagcaag gggagcctgg ccaccagggg 360
 ctgggacatg cgctcactgg aacctttgtg cttggccctc ggcagcgcgg ctgtgggtccc 420
 gtgtgaggtg tgctgggggtg ggggtgtgggt ggctgggtgtt ggcagcttgt gccagagtga 480
 cacaggcctc cctggggttg gatgggggca agttaaaaag ctgaaaaggt acttggcttt 540
 ctgagggcgg gcttggggagc aggccctgca gganaccatg ttctctgtcc tcagcagatc 600
 cac 603

<210> 450
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 450
 gaattcgaac cccttcgcat caatataana tgccacccat ctgcagttaa tttcttttcc 60
 tcatcatgtg attaaaagtg gtgattcagt gggaactggg aatgttttta gctgggtggta 120
 gaaggctgcc tacactgggc actgttttag attctcatat catttaaaca gcaaggaggt 180
 tcagggaaga ataaccgtag ccttgggtaa tccactaggg cttttgtgag taggagagct 240
 gatacctcac attcttagca ggtgaaaact tgccatgatg gaaacagata gtgaagagtt 300
 actgacgtat cccaaattat atgctgtgac ataaattccc agcatgcca gccctgattt 360
 ctgagttcat aagtaattct agtgaacctt agtaggaatt ctgggtaaga aaatgaggtt 420
 gccattggtc ttgtttgcat caccaagacc agacatccag aagagcccct caccttgaaa 480
 agcagacaga ttttaaatta accccctcct tcccactcac cttcatctcc ctaagagttt 540
 tggccattta attccacatt ttgaaaggaa tacattgggt aaatttggga agagaatctg 600
 tgctatgcaa tgtttcatta aaatcttcag tttttcaagt ctctctaaaa ataatttgta 660
 gatctatctt ggatggat 678

<210> 451
 <211> 651
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(651)
 <223> n = A,T,C or G

<400> 451
 tttttcatca acaaaaatca agcattttcn tttttttgaa acaagaaaag cgcacgtan 60
 aaaccaagat tctgtacaat attctaacat tatatgtaca taaaattata ttactcataa 120
 ctatatgtga agtcttatt tgtagaatat ggctggcaac aaagaaagac ccataccatt 180
 tagcgtttga agcagggcag gtagcaagag aacattagca aagacacctt tgtgcctgga 240
 tacacaatcc tgctactaag ttatgtgact aaccagcaca ctctaagttc tgtggtttgt 300
 tcgttggttc acattctagt aggggaattct gcagcaggcg atgcgaaaaa naanacatgg 360

```

tcaaataaaa tgtgaaatgc tgttttaaaat ctgcatattg gctatgataa tgggtttgng 420
aatccaagtt gcattggaag ttcactcatt ctccattcat tatgcatgcc tccagtgatt 480
taatgaattt cagcaggngg aaaagacagc tttgaacaga tcagatgggc tgtgagtcan 540
attcttgatt ctttttcctc atttggctcc tgaatgttgc anaaaactgg ttttgtacac 600
tggggaagga gagagtgaag accctccagt tggttcctca gtcagctccg t 651

```

```

<210> 452
<211> 679
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(679)
<223> n = A,T,C or G

```

```

<400> 452
gaattcgaac cccttcgcat tgctcagccn nctaccactg ctaagagcca tctccaccag 60
aagcctggcc agacctggaa gaacaaagag catcatctct ctgacagaga gtttgtgttc 120
aaagaacctc agcaggtagt acgtagagct cctgagccac gagtgattga cagagagggg 180
gtgtatgaaa tcagcctgtc acccacaggt gtatctaggg tctgtttgta tcctggcttt 240
gttgacgtga aagaagctga ctggatattg gaacagcttt gtcaagatgt tccctggaaa 300
cagaggaccg gcatcagaga ggatataact tatcagcaac caagacttac agcatgggat 360
cgagaacttc cttacactta ttcaagaatc actatggaac caaatcctca ctggcaccct 420
gtgctgcgca cactaaagaa ccgcattgaa gagaacactg gccacacctt caactcctta 480
ctctgcaatc tttatcgcaa tgagaaggac agcgtggact ggcacagtga tgatgaaccc 540
tcactaggga ggtgccccat tattgcttca ctaagttttg gtgccacacg cacatttgag 600
atgagaaaga agccaccacc agaagagaat ggagactaca catatgtgga aagagtgaag 660
atacccttgg atcatggta 679

```

```

<210> 453
<211> 630
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(630)
<223> n = A,T,C or G

```

```

<400> 453
gaattcgaac cccttcggaa ggccaaggn ntagaaggng gctccggccc cagctgtcgt 60
gaagaagcag gaggctaaga aagtggtgaa tcccctgttt gagaaaaggc ctaagaattt 120
tggcattgga caggacatcc agcccaaaag agacctcacc cgctttgtga aatggccccg 180
ctatatcagg ttgcagcggc agagagccat cctctataag cggtgaaag tgcctcctgc 240
gattaaccag ttcacccagg ccctggaccg ccaaacagct actcagctgc ttaagctggc 300
ccacaagtac agaccagaga caaagcaaga gaagaagcag agactgttgg cccgggccga 360
gaagaaggct gctggcaaag gggacgtccc aacgaagaga ccacctgtcc ttcgagcagg 420
agttaacacc cgtcaccacc ttggtggaga acaagaaagc tcagctggtg gtgattgcac 480
acgacgtgga tcccatcgag ctggttgtct tcttgcttgc cctgtgtcgt aaaatggggg 540
tcccttactg cattatcaag ggaaaggcaa gactgggacg tctagtccac aggaagacct 600
gcaccactgt cgccttccac aggtgaactc 630

```

```

<210> 454

```

<211> 677
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(677)
 <223> n = A,T,C or G

<400> 454
 gaattcgaac cccttcgccc gcatgcggnac catccccttg gccccagggt cagactggcg 60
 cgatctgccc aacatcgagg tgcggctctc agacggcacc atggccagga agctgcggta 120
 taccacccat gacaggaaga acggccgcag cagctctggg gccctccgtg gggctctgctc 180
 ctgctggaag gccggcaaag cctgcgaccc cgcagccagg cagttcaaca ccctcatccc 240
 ctggtgcctg ccccacaccg ggaaccggca caaccactgg gctggcctct atggaaggct 300
 cgagtgggac ggctttcttca gcacaaccgt caccaacccc gagcccatgg gcaagcaggg 360
 ccgctgctc caccagagc agcaccgtgt ggtgagcgtg cgggagtggt cccgctccca 420
 gggcttcctt gacacctacc ggctcttcgg caacatcctg gacaagcacc ggcagggtggg 480
 caatgccgtg ccaccgcccc tggcaaagcc attggcttgg agatcaagct ttgtattgtt 540
 ggccaaagcc cgagagagtg cctcagctaa aataaaggag gaggaagctg ctaaggacta 600
 gttctgcctt cccgtcaccg ctgtttcttg caccaggaat cccccacaat gcacttgatg 660
 gtgggggttt aacatgt 677

<210> 455
 <211> 598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(598)
 <223> n = A,T,C or G

<400> 455
 ttttttgggt tataggagag atttatttga agaaatatta caacatataa aaactacata 60
 aagtcttaat ttccactcat acagtggtag atttgatata atgcataata aaaaactttt 120
 aaaatccaga atgcacaaag tactgcacaa tttgatcact aaatcattag ttgataagcg 180
 aacctcacac aacagcttca tgtcagccaa ggccacaaac accatgtacc acacatgtga 240
 acggacagat tgacatgtta aaaacacaac atcagtgcac gttggggatt cctggtgcca 300
 gaaacagggg tgacgggagg gcagaactag tccttagcag cttcctcctc ctttatttta 360
 gctgaggcac tctctcgggc tttggccaac atacaaagct tgatctccaa gccaatggct 420
 ttggccaggg gcggtggcac ggcattgccc acctgccggt gcttngtcca ggatgttgcc 480
 cgaagagccg gtaggtggtc aagggaagcc cctggggaag cgggcacact cccggacgct 540
 naccacacgg tgctgntttt ggggtggagca ccgcggcctt gcttgcccat gggctcgg 598

<210> 456
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 456
 ggaattcgaa ccccttcggg gcggggagcc ccgtagaacc gagggggctg gcccgggggg 60
 cccgggggag gtggagatgg tgaaggggca gccgttcgac gtggggccgc gctacacgca 120
 gttgcagtac atcggcgagg gcgcgtacgg catggtcagc tcggcctatg accacgtgcg 180

```

caagactcgc gtggccatca agaagatcag ccccttcgaa catcagacct actgccagcg 240
cacgctccgg gagatccaga tcctgctgcg cttccgccat gagaatgtca tcggcatccg 300
agacattctg cgggcgtcca ccctggaagc catgagagat gtctacattg tgcaggacct 360
gatggagact gacctgtaca agttgctgaa aagccagcag ctgagcaatg accatatctg 420
ctacttcctc taccagatcc tgcggggcct caagtacatc cactccgcca acgtgctcca 480
ccgagatcta aagccctcca acctgcttca tcaacaccac ctggcgacct ttaaaatttg 540
tgaatttccg gcctggcccc cggattgccc gaat 574

```

```

<210> 457
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(546)
<223> n = A,T,C or G

```

```

<400> 457
ttttttgaca catctctata tttatatatt agacgggtca gggagggtggc aggggcgccg 60
ggctctccac gccccccagc tccacttctg ctcaccacac acagaagcag cgagggcacg 120
cgaagtgaca gctttgacag ggaggggatt cggcccggcc tggctcctca gggatgctag 180
cccttgagac taaggaatgt tccttcaggg aaactagggt ggggtttgaa tganatgagg 240
ggggcaggca tggccctgag tccctactca gcgcccccca ccctccacct ctgcccttca 300
gcaggttggg gcagccagaa cccttccatt ccagaactgc cagagactgg gacgctgggg 360
aaggtaaggg cgcagcagca gcagcgggag attgaactgg ggccacctga gctcccgagg 420
ccccgtgggg agggcggggtg gggaggaaaa ggcccttgcc tgccctgaagc tggaggcctc 480
agcaaaggag agaggtggcc aggcccatgc tccacccccg cctgggctgc caanggtccc 540
gggctg 546

```

```

<210> 458
<211> 674
<212> DNA
<213> Homo sapiens

```

```

<400> 458
gaattcgaac cccttcggta ttattaagaa ctaagagaat agcttgccag atacaaatgg 60
aaacaccttc caaatgagtc ggagaaaatg tcttgacagta ttatgggtaa aatagcaaag 120
agcttgggaa tacagtgtgc taatatcaag tccttaacaa cgaccattct tcattcaaga 180
ttagttgtgt ataaatacat gcttcttcag gagttgactt agaaaacaag caaacaaca 240
aacatcagaa actatttaca actgggagca atccttgaag aacataaaga atataaatat 300
caacaaaggc tgaaaactct tttttagatt aaagatcaaa tggacatgtc atcggaatgt 360
attgtatggc tcttgattaa atcctggagc aaagtggaga gtgaggaaca actgtaaaga 420
atgtgaatac ggactgtgta ttagataaca gtaccataaa tttcctggat gggataatta 480
tggtgtgact atgtaagaga atattttgcc cttagaagat atatgatgaa gcatttagaa 540
gtaaagtatc atgacatctt gcaaataact ttcaagtgat tcagccagat atataaaaat 600
tatatataac acattatata atttatatat atataattat aatacattat ataatttata 660
cattataatt atat 674

```

```

<210> 459
<211> 682
<212> DNA
<213> Homo sapiens

```



```

<400> 459
ttttttttaa tccatggctt gttaattgtc atcccagtta tttacatgtg actatagaga 60
ctgcattctc ccagctgcca ggccgccagg gctttgccac tgggtataatt tataacacga 120
ctaattaaaa tgaatttgct tgcaataagg ttctgtgtgc tatttggtgg agaggagtta 180
ttaaaatttt cagtacagta atagtaaact tgaatgcaaa gtaataataa tcatacattt 240
ttaattacat gttaaatacc catttggcta atgtagaact attctgaaaa ttacttggga 300
tcagcacaat gtctttttgt gcttagtagt atccaaagac atccttctga atgggcttag 360
caatatgcac tgtcatcaag atacagctgt ttgatgacag acacacagtg tgttcctatg 420
atactttgca caagatcagc tatgacaaat acaagttcat ttgcttatt gcaggcaa 480
aatgtccttt gcaggaactt ggatggagcc agaggccatt attctaagt aaataacctca 540
ggagtggaaa accaaatacc atatgttctc acttacaagt gggaactaag ctatgggtac 600
acaaacgcat atagagtaat ggactctggc gactcatact acatattgag tacaatgtac 660
actacttggg tgatgggtgc ac 682

```

```

<210> 460
<211> 663
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(663)
<223> n = A,T,C or G

```

```

<400> 460
gaattcgaac cccttcgcgg ggccgcgcgag cggcgccagc tcggggcagc ggaacccaga 60
gaagctgagg gggcggtagc ggccgcgcagc gcgacgacga cgactcccgc gcgtgtgccc 120
agcctcttcc cgccgcagcc gcccttttcc tccctccctt acgtccccga gtgcggcagt 180
accgcctcct tcccagccgc gcggcttcct ccagacctct cggcgcgggg gagccctatt 240
cccagaggca ggtggtgctg accctgtaac ccaaaggagg aaacagctgg ctaagctcat 300
cattgttact ggtgggcacc atgtccttga agcttcaggc aagcaatgta accaacaaga 360
atgaccccaa gtccatcaac tctcgagtct tcattggaaa cctcaacaca gctctggtga 420
agaaatcaga tgtggagacc atcttctcta agtatggccg tgtggccggc tgttctgtgc 480
acaagggcta tgcccttggt cagtactcca atgagcgcca tgcccgggca gctgtgctgg 540
gagagaatgg gcgggtgctg gccgggcaga ccctggacat caacatggct ggagagccta 600
agcctgacag acccaagggg ctaaaganaa gcagcatctg gcatatacag gctcttcgac 660
tac 663

```

```

<210> 461
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(612)
<223> n = A,T,C or G

```

```

<400> 461
ttttttggga tccaatctnt ttattgtcag ggtcccctcc ctgnggcccc ccgccaaacc 60
tatagaaaaa acccaagcct gggagtgtcc tggggagggg aggtagtatg gggaaacccc 120
tgtgctctac cctntggcct gggcagtgc naacaggagg gctcatgggg aaggagtagg 180
ccagtaactc cacctgcana ggacatggca ctggctggga tgcgttgggg gaggaggcgc 240
ctgctgccag ctttcctntg gtaccgcgtg ggggggtggc tccagggttg ggtgcccggc 300

```



```

ttgaggcctg gggcagcgat gcccttcacc tgctggnggc cattgctcct gtcaggctgc 360
ttactgcaag gccccatcat ccgcgtctgt gtcctggctg tgttccagct cttcctcgct 420
gngtgtcagg agcccttcct catcgccgtc gtctcgggtc cgtgcttccc cctggggcag 480
gcctgcctca naagttgtgt tctcttgggg ggctggtggc cggttgttgc caccgcaccg 540
caccaccact ggcaccggca ccgntgcacc accaccgccg ccgccgccgn tggngccacc 600
ttcatcacc tt 612

```

<210> 462
 <211> 672
 <212> DNA
 <213> Homo sapiens

```

<400> 462
gaattcgaac cccttcggat ggaagggggc ggggcagcgt cggggaaagg aagggccgga 60
ggcgcgggcg cgggcggcg agagggggcg cggcgggcg ggcggcgggg ttcccgcgcc 120
gcgagagccc gcccagagac cgcgctccac ttcttgctc ctgctcccgc cgccctgggg 180
cgccgccatg acgcccgatc tgctcaactt cagccccaga tgtcaccaag ctctcggact 240
ctaacaagga gaacgcgctg cacagctaca gcacccagaa gggccccctg aaggcagggg 300
agcagcgggc gggctctgag gtcctcagcc ggggtggccc tcggaaggcg gacgggcagc 360
gtcaggcctt ggactacgtg gagctctcgc cgctgaccca ggcttccccg cagcggggcc 420
gcaccccagc ccgcaactct gaccgccctg gccaaagcagg aggagctgga gcgggacctg 480
gcccagcgct ccgaggagcg gcgcaagtgg ttgaggcca cagacagcag gaccccagag 540
gtgcctgctg gtgagggggc gcgccggggc ctgggtgccc cctgactgag gaccagcaaa 600
acgggcttag tgaggagatc gagaagaagt ggcaggagct ggagaagctt gcccttgcg 660
gagaataacc gg 672

```

<210> 463
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(562)
 <223> n = A,T,C or G

```

<400> 463
ttttttaaag tataaagtgt tttggaaaaa aaggaaaaan ntctatataa aaatctcttc 60
acatatataa tcctgaagaa ggtgcaaggt gagacccagt gcgaggggcg tgctcagata 120
tgcaagtgtgt gtgtgtgtgt gtgtgtgtgt gtatccgtgt gtacatgtgt gcacgtgtgt 180
gcgtatgtgt ctgtgtgtct gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt ggtgggtgca 240
agtgcacgtg tggcccacag aggggtggga gaaagcttgg ctttttactt ccatccagga 300
gggaaggagg gcggctggtc ctccagcctg gagggctctg agctgggagg gacctctact 360
cagccaggct gttgcgcata gactccttct cctggagggc ggccatggca agacgcaggt 420
gctccttcag ctgctcgatc tcccgtcag accgtgtctt gatgtggctc aactccacat 480
agacgtcctg gtactttccc naggtgaagc gcttgtcctt ctgcatcctc tggagctcgt 540
cccggaggca ctgcaccttc ct 562

```

<210> 464
 <211> 553
 <212> DNA
 <213> Homo sapiens

<400> 464

```

gaattcgaac cccttcggga ccaggaaccc aggagagcat ggccacgctg cgccggcttc 60
gggaggcgcc gcggcactta ctggtttgcg agaaatccaa cttcggcaac cacaagtcgc 120
gccaccggca tcttggtgcag acgcactact ataactacag ggtttcattt ctcattcctg 180
aatgtgggat actatcggaa gaactgaaaa acctggtcac gaacactgga ccctattact 240
ttgtgaagaa tttacctctt catgaattaa ttacacctga attcatcagt acctttataa 300
agaaagggtt ttgctatgca ctaacataca atacacatat tgatgaagat aatactgttg 360
ccctgctacc aaatgggaaa ttaattttgt cactggataa agacacttat gaagaaactg 420
gacttcaggg tcatccatct cagttttctg gcagaaaaat tatgaaattt agttcagaag 480
aatcgacaat gatgtcatat ttttccaagt accaaattca ggagcatcag ccaaaagtag 540
cactgagccc gtt 553

```

```

<210> 465
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 465
tttttggaag aaaacacgat ttttaatttt tattttttat gggggacagn gatcatttgc 60
cccaacagcc atntgaagcc aatagtcctg attattaaaa atcacaaagt tatataaatg 120
ntctcctcct tttcgaaaac catgttcatt tttttcccaa naaacagggc tgtctgcaaa 180
gccttgaacg gacagngtaa cccatggagc taacttcggt tcatcaaagt agngacagan 240
atgttccaat agganacaga tcttntntgg aagtatgaag ccagnattg tacacaaata 300
agcttttgcc accactgtgc ttggctcagg acagcaatag gttgatatga aattattagg 360
ctcattattt agnncgacat tac 383

```

```

<210> 466
<211> 673
<212> DNA
<213> Homo sapiens

```

```

<400> 466
gaattcgaac cccttcgctc cctcctgcac gcaatggtgg cctatgatcc cgatgagaga 60
atcgccgccc accaggccct gcagcacccc tacttccaag aacagaggaa aacagagaag 120
cgggctcttg gcagccacag aaaagctggc tttccggagc accctgtggc accggaacca 180
ctcagtaaca gctgccagat ttccaaggag ggcagaaagc agaaacagtc cctaaagcaa 240
gaggaggacc gtcccaagag acgaggaccg gcctatgtca tggaactgcc caaactaaag 300
ctttcgggag tggtcagact gtcgtcttac tccagcccca cgctgcagtc cgtgcttgga 360
tctggaacaa atggaagagt gccggtgctg agacccttga agtgcacccc tgcgagcaag 420
aaggtagcgc ggaaccagct tctctgacgg cgctgctctt cgaccagcc caggccgcca 480
ctgaattttg tgtctgtaat ttttctttga cagacagatc cgcagaagga ccttaagcct 540
gccccgcagc agtgtcgctt gccaccata gtgcggaaag gcggaagata actgagcagc 600
accgtcgtct cgacttcgga ggcaacacca agcccagacc ggccaggcct gggatgatctg 660
ctgctgagac gcc 673

```

```

<210> 467
<211> 373
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(373)
 <223> n = A,T,C or G

<400> 467
 tttttactgg aacgacagct tattnttttaa taaaagtcag gggngtcagc agngtcactg 60
 gtaanacatg atggcgctcc acgactgacc agcagcgctg ggaagggaca cgcanaaccc 120
 accttccaac cagcccaac acatnacana aatgcctgct cgtttgtttt gattcatata 180
 caaagttaca aagtattttcc tgccccaat tnttaacgaa aatgaaagaa aaccctanaa 240
 tgcggggggt ttacaagtat attagcccan aacatcctag gcagctgcnc gggccgcggg 300
 tgcggcaggg cgcagggcaa cacccaaagc cccggccagc gcgaaacgga cgcagggcgca 360
 tccccagccc tcc 373

<210> 468
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(573)
 <223> n = A,T,C or G

<400> 468
 gaattcgaac cccttcgctg ctgtcctact tgatgcttgt cactgtcatg atgtggcccc 60
 tngctgtgta ccaccgactg tgggatcgag catatgtgcg gctgaagcca gctctgcagc 120
 ggctagactt cagtgtccgt ggctacatga tgtccaagca gagagagaga caattacgcc 180
 gcagagctct ccaccagaa cgagccatgg acaaccacag tgacagcgaa gaggagcttg 240
 ctgccttctg tcctcagctg gacgattcta ctgttgccag ggaattggcc atcacagact 300
 ctgagcactc agacgctgaa gtctcctgta cagacaatgg cacattcaat ctttcaaggg 360
 gccaaacacc tctaacggaa ggctctgaag acctagatgg tcacagtgat ccagaggaat 420
 cctttgccag agaccttcca gacttccctt ccattaatat ggatcctgct ggcctggatg 480
 atgangacga cactagcatt ggcattgccc gcttgatgta ccgttctccg ccagggggct 540
 gaggagcccc aaggccccac ctgccagccc ggg 573

<210> 469
 <211> 635
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(635)
 <223> n = A,T,C or G

<400> 469
 tcncgatcta gaactagggt ggacaggctt gctcaagttt caccagagtt antactggcc 60
 tctgttcgca gagtttttag tttnacactg cagaattggc agactacacg gtttatggaa 120
 gttgaagtag caataagatt gctgtatatg ttggcagaag ctcttccagt atctcatggt 180
 gctcacttct caggtgatgt ttcaaaagct agtgctttgc aggatatgat gcgaactgta 240
 agtatactgg agataatttt gaccataaat ttctgttttc agtataagct aatgggagtt 300
 ccttaattgt tagagcttag tatatgttaa taccggggca ttttgatggt gcaataaata 360
 agaagagggt tcctaacttt ttcttgatct agctggtaac atcaggagtc agttcctatc 420

```

agcatacatc tgtgacattg gagttcttcg aaactgttgt tagatatgaa aagtttttca 480
cagttgaacc tcagcacatt ccatgtgtac taatggcttt cttagatcac agaggtctgc 540
ggcattccag ngcaaaagtt cggagcagga cggcttacct gttttctaga tttgtcaa 600
ctctcaataa gcaaatgaat cctttccttg aggat 635

```

```

<210> 470
<211> 593
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(593)
<223> n = A,T,C or G

```

```

<400> 470
gaattcgaac ccttcggtat taacaaatat ntacatttct atttttataa tccataagga 60
tatgcctggt ttaaataaca tacatattaa caatatctat caggaaaacc ctcaagacag 120
cttctagtta aaaccttngn tgctgtcttc tcaaactata tttataaaaa tttgctaggg 180
ccaaatccat acttgcagaa taattcatca aattttatatt ttaagngaaa agtaaccttt 240
caggcatttc agcagcatac attgacaatc tagggatatat atgtatgtat gtttcttatt 300
gtatgtctat atatgtatgt ggggaggaca ggagtgaatg ttcacacact tttcttgcgt 360
actcaactaa attggagaat gtttctgaag aaaattggat gaaattagct gctgagattg 420
agtttctgcc ttaaaatctg aaacaaaaaa agggacaaat tgctggtang atctactgac 480
tgtngccatc accagaacac ttagtttctt cccagacatg aatttcctga caggctctga 540
gccagaaaca cactgtgggc gtgcatntgg gtcaccctgg atatgcctcc act 593

```

```

<210> 471
<211> 581
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(581)
<223> n = A,T,C or G

```

```

<400> 471
tttttttaat cangggacat ttattaacat gcttcaaaag tgaccaaaagt gtccagccag 60
cacaatagcc gaggcaatca acgttctctt agtgtgtgat ctcgccaaa acaccaata 120
aataggttta ggaataacct caaataaatt gtaatttaac ttcgccaaa attatacatc 180
ctctactgct cttccctgct cctgtaaaga tactagcggg aggggagaaa gctcaaatga 240
ctctgtaatt tagaattaca accagagaag aaatacttca agcacaataa agacgttcca 300
ttgaagagcg acattcattc tggaatgttt gttttgaaaa caactcttnt gggggaattc 360
aaaagggtact gaacaaagca acataaagta agttttgggt tgttttgcaa aataaaaata 420
tacaattgag tggaccagat ggcaaaaaca taccaattac aatctgaatg ctatatttaa 480
aacccttaaa ttctgaaggc ctgaatatca acaaacctat ttatgtttat gatcctaaaa 540
agacattaaa tattattaaa cccccaactt ccaaaacata g 581

```

```

<210> 472
<211> 674
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(674)
 <223> n = A,T,C or G

<400> 472
 gaattcgaac cccttcggat ggcgtgatgt ntcacagaaa gttctccgct cccagacatg 60
 gggtccctcgg ctctcctgcct cggaagcgcga gcagcaggca tcgtgggaag gtgaagagct 120
 tccctaagga tgacccgtcc aagccggtcc acctcacagc ctctcctggga tacaaggctg 180
 gcatgactca catcgtgcgg gaagtcgaca ggccggggtc caaggtgaac aagaaggagg 240
 tgggtggaggc tgtgaccatt gtagagacac caccatgggt gggtgtgggc attgtgggct 300
 acgtggaaac ccctcgaggc ctccggacct tcaagactgt ctttgctgag cacatcagtg 360
 atgaatgcaa gaggcgtttc tataagaatt ggcataaatc taagaagaag gcctttacca 420
 agtactgcaa gaaatggcag gatgaggatg gcaagaagca gctggagaag gacttcagca 480
 gcatgaagaa gtactgccaa gtcattccgtg tcattgccca caccagatg cgcttgcttc 540
 ctctgcgcca gaagaagccc acctgatgga gatccagggtg aacggaggga ctgtggccga 600
 gaagctggac tgggccccgc gagangcttg agcacaggta cctgtgaacc aagtgtttgg 660
 gcaggatgaa aatg 674

<210> 473
 <211> 646
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

<400> 473
 ttttttcagn ggaaaataac ttttattgan accccaccaa ctgcaaaatc tgttcctggc 60
 attaagctcc ttnttccttt gcaattcgggt ctttcttcag nggtcccatg aatgctttct 120
 tctcctccat ggtctggaag cggccatggc caaacttgga gnggtgtca atgaacttaa 180
 ggtcaatctt ctccanagcc cgccgnttcg tctgcaccag caaggacttg cggagggtga 240
 gcacccgctt cttgggtccc accacacagc ctttcagcat gacaaagtca ttgggtcactt 300
 caccatagng gacaaagcca ccacanagggt tgatgctctt gtcanatagg tcatagtcag 360
 tggaggcatt gttcttgatc agcttgccgt ccttgataag gtagccctgg ccaatcttat 420
 aaatcttctt gttgatctca gtgcggtgat ggtagccttt ctgcccagcg cgtgccacag 480
 agaaggctac acgagcagga tgccatgccc caatacaggc caccttgccg aggcctcgggt 540
 gggctcttgcg gggcagcttc ttgggtgtgc aacgactggt gacccctttg tagcctttgc 600
 ccttggtcac cccgatgacg tcgatcatct catcctgccc aaacac 646

<210> 474
 <211> 544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(544)
 <223> n = A,T,C or G

<400> 474
 gaattcgaac cccttcggca gcacactccc antcggccgc agcctgacac gccgcgcggc 60

```

ccccagtcct cccgcggctg ctccccaggg catggcacag ggcctcgcct cactatggca 120
gcagcacggc acagcacgct cgacttcctg ctcggcgcca aagctgatgg tgagaccatt 180
ctaaaaggcc tccagtccat tttccaggag caggggatgg cggagtcggt gcacacctgg 240
caggaccatg gctattttagc aacctacaca aacaagaacg gcagctttgc caatttgaga 300
atttaccac atggattggg gttgctggac cttcagaggt atgatgggta tgcgcaaggc 360
aaagaagaga tcgacagtat tttgaacaaa gtagaggaaa gaatgaaaga attgagtcag 420
gacaagtact gggcgggtga aacgattacc acccatagtg cgaggaggag ccatcgacag 480
atactggccc accgncgacg ggcgccttgg ttgaatatga catagaatga agtggatatat 540
gacg 544

```

<210> 475
 <211> 578
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(578)
 <223> n = A,T,C or G

```

<400> 475
gaattcgaac cccttcggga gaaccccatg ngggaacttc gcatccgcaa actctgtctc 60
aacatctgtg ttggggagag tggagacaga ctgacgcgag cagccaaggt gttggagcag 120
ctcacagggc agaccctgt gttttccaaa gctagataca ctgtcagatc ctttggcatc 180
cggagaaatg aaaagattgc tgtccactgc acagttcgag gggccaaggc agaagaaatc 240
ttggagaagg gtctaaagggt gcgggagtat gagttaagaa aaaacaactt ctcagatact 300
ggaaactttg gttttgggat ccaggaacac atcgatctgg gtatcaaata tgaccaagc 360
attggtatct acggcctgga cttctatgtg gtgctgggta ggccaggttt cagcatcgca 420
gacaagaagc gcaggacagg ctgcattggg gccaaacaca gaatcagcaa agaggaggcc 480
atgcgctggg tccagcagaa gtatgatggg atcatccttc ctggcaaata aattcccgtt 540
tctatccaaa agagcaataa aaagttttca gtgaaaaa 578

```

<210> 476
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(619)
 <223> n = A,T,C or G

```

<400> 476
ggaattcgaa cccttctgct cctgcctgtc cgccatgttt tcaggncggg nctggcttgg 60
tcttcccccg taaggaaatg gccggggagc tccaggggac ccaggcgccg tcgcttcggc 120
ggagcctggg ctgaccagcc aggacagcgg ggtaaaccgg aacaattctg cgcgaggtag 180
ggaggccatg gcgtccggca gtaactggct ctccgggggtg aatgtcgtgc tggatgatggc 240
ctacgggagc ctgggtgtttg tactgctatt tatttttgtg aagaggcaaa tcatgcgctt 300
tgcaatgaaa tctcgaaggg gacctcatgt ccctgtggga cacaatgccc ccaaggactt 360
gaaagaggag attgatattc gactctccag gggttcaggat atcaagtatg agccccagct 420
ccttgacgat gatgatgcta gactactaca actggaaacc cagggaatc aaagttgcta 480
caactatctg tataggatga aagctctgga tgccattcgt acctctgaga tccattttca 540
ttctgaaggc cggcatcccc gttccttaat gggcaagaat tttccgcttc taccttgctg 600
gatcttgaga aacactagt 619

```


<210> 477
 <211> 674
 <212> DNA
 <213> Homo sapiens

<400> 477
 gaattcgaac cccttcgggg tgttcgactg ctagagccga gcgaagcgat gcctaaatca 60
 aaggaacttg tttcttcaag ctcttctggc agtgattctg acagtgaggt tgacaaaaag 120
 ttaaagagga aaaagcaagt tgctccagaa aaacctgtaa agaaacaaaa gacaggtgag 180
 acttcgagag ccctgtcatc ttctaaacag agcagcagca gcagagatga taacatgttt 240
 cagattggga aaatgaggta cgttagtggt cgcgatttta aaggcaaagt gctaattgat 300
 attagagaat attggatgga tcctgaagggt gaaatgaaac caggaagaaa aggtatttct 360
 ttaaattccag aacaatggag ccagctgaag gaacagattt ctgacattga tgatgcagta 420
 agaaaactgt aaaattcgag ccatataaat aaaacctgta ctgttctagt tgttttaatc 480
 tgtcttttta cattggcttt tgttttctaa atgttctcca agctattgta tgtttggatt 540
 gcagaagaat ttgtaagatg aatacttttt tttaatgtgc attattaaaa atattgagtg 600
 aagctaattg tcaactttat taaggattac tttgtctgcc caccctagt gtaaaataaa 660
 atcaagtaat acat 674

<210> 478
 <211> 663
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(663)
 <223> n = A,T,C or G

<400> 478
 tttttttaag ctttcacaat ttttattaaa tcctagtcta nttgaacaat atctgatgtt 60
 acagacatca tcccatgggtg aacatgttta ataagtgaag gcaagtcaga catctcatct 120
 aagtcattat tttctgcaga ctaagcaata actacacaga acactatggg taaacaaaca 180
 cctgctcagt tttcacacaa gccatgttgt ttatcaaatt agatctgcta atattgaata 240
 cagtagattc ggtgattgta gttctcatat aagtatctta ttgagataac attttgacag 300
 tttcactgac tttccaaata agcataccat aatcaaagaa aagaataaag agtgaagtaa 360
 aaactgaaca tgaagagatt aagttattaa aggaaaatga agtaaataaa aagagtgaag 420
 aaccattggg ggtggaagtc aaacaagcct agacatttga ttggaagaga aaagatcaaa 480
 tatgaagttc acaaaccaaa agttttataaa ctcaatgcaa tacaaatcct ttttattgta 540
 aaagctgagt tgaaactaaa agatctataa aaactgttac ttttggcctt aaacagtacc 600
 aactcttatg atcaaaaaag gccacacagt taagattgna ttacttgatt ttattttaca 660
 cta 663

<210> 479
 <211> 673
 <212> DNA
 <213> Homo sapiens

<400> 479
 gaattcgaac cccttcgaat gaagaactct ccagggatct agtgaataaa ctaaaaccct 60
 acatgagctt cctgactcag tgccgtcccc tgtcagcgag catgcacaac gccatcaagt 120
 tccttaacaa ggaaatcacc agtgtgggca gttccaagcg ggaagaggag gccaaagtcag 180
 aacttcgagc agccattgat cggtatgtgc aagagaagat tgtgctagca gctcaggcaa 240


```

tttcacgctt tgcttaccag aagatcagta atggagatgt gatcctggta tatggatgct 300
catctctggg atcacgaatt cttcaggagg cttggacaga gggccggcgg ttccgggtgg 360
tagtggtgga cagccggcca tggctggaag gaaggcacac actacgttct ctagtccatg 420
ctggtgtccc agcctcctac ctgctgattc ctgcagcctc ctatgtgctc ccagagggtt 480
ccaaggtgct attgggagct catgcactct tggccaacgg gtctgtgatg tcacgggtag 540
ggacagcaca gttagccctg gtggctcgag ccataaatgt accagtgtg gtttgctgtg 600
aaacatacaa gttctgtgag cgtgtgcaga ctgatgcctt ttgtctctaa tgagctagat 660
gaccctgatg atc 673

```

```

<210> 480
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(203)
<223> n = A,T,C or G

```

```

<400> 480
gaattcgaac cccttcgggg ggaggaagag gaggtggagg aggaggggtga tgttgatagt 60
gatgaagaag aggangaaga tgangananc tcctcggagg gcttggaggc tgaggactgg 120
gcccaggag tagtggaggc cgntggcagc ttccggggctt atggtgcccc ggaggaagcc 180
cantgcccta ctctgcattt cct 203

```

```

<210> 481
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 481
ccagacgctg cccatggagg cgtccagcga gccgccgctg gatgctaagt ccgatgtcac 60
caaccagctt gtagattttc agtggaaact gggatatggct gtgagctcag acacttgcag 120
atctcttaag tatccttacg ttgcagtgat gctaaaagtg gcagatcatt caggccaagt 180
aaagaccaag tgctttgaaa tgacgattcc acagtttcag aatttctaca gacagttcaa 240
ggaaattgct gcagttattg aaacgggtgtg aagacggatt ctttggttga taaattgcta 300
tcattctaaa gtcattggact tcactttcgg caacaaaact aaataaggat ggaacattta 360
ttgaatgaaa aatgcacttt tgtttttcca ttttttttaa taataaaaat cagacaaaaca 420
gaaaaaaaaa aaaaaaaggg cggccgctcg agtctagagg gcccgtttaa acccgctgat 480
ca 482

```

```

<210> 482
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<400> 482
aaaatcttta gctgccaaaga aagaagttaa gactctcagt gctgagagag actgaatcca 60
cctaggtgat aaggtgactg gacccagtaa accctttgtg tgctgggggg ttttatgcct 120
tgtagaacc cagtgtagca agatttgggt accctacata cattcagtag ccaggaaagg 180
gtgattggat tgccagactc tgccctgctgg caaaaggatg agctgtagaa gctgaagtcc 240
taggtagtag atataaagaa gacaaattag gtggcacctt ctagactgtg caatgcatgg 300
atttggaatt gaatttttcc tctaattatt ctagggaac cctgggctaa gaaaccaatg 360
taaaacctga tgaggtagtc tgtagtcaca ctgggtagag gtagaggcaa ccacaaaatt 420

```

attcttaaga atgcctccca ggcgcctgga agatgaaact ttctggtgaa tatgagctca 480
 tggtaaaaat ttaggtcgga tgcag 505

<210> 483
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 483
 tgcaaaaagg taacaaattc ataactggaa agcaaagaga agaacaagta tgatttggat 60
 gataaagcat tgttttaatg gtgaaaactt cacagatcac taatgtttct agaggttaac 120
 ttcaagtggg caagctgggg tttttaggta gtcagtggcc tagttcctaa agccacagta 180
 taggatctgt taaactgaat gtctgttgaa agtttgtttt agctgcttgg aggcttcctt 240
 ttaagacaaa ctgtatgtga ttaagttggt ttgaggggaa tgaagaacct gatgtagccc 300
 ctggccagat aactgcctga tttctcagat attatttctc tgggaaacat tctacatagc 360
 acaggagctt aagagtggca ttatcttctc gccttaattt ccagagatta tttctgtact 420
 gagaatcctg gaactactat gctaggaaat ttaaagctgc atggtctgtc ttgttttcat 480
 ttaattattg tgaataccta g 501

<210> 484
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 484
 gcactaagac caccttctat gaggagcagg gtgactacta cagccagtag atccgggcct 60
 gcctggacca cctggccccc gactccaaga gttctgggaa ggggaagaag cagccttctc 120
 ttcattacac tgctgctcag ctcttggaag aggggtgtctt ggtggaaatt gaagatcttc 180
 ccgcctctca cttcagaaac gtcactcttg acatcacgcc gggagatgag gcaggaaagt 240
 ttgaagtaaa tgccaagttc ctgggtgtgg acatggagcg atttcagctt cactatcagg 300
 atctcctgca gctccagtat gaggggtgtg ctgtcatgaa actcttcaac aaggccaaag 360
 tcaatgtcaa ccttctcatc ttctcctca acaagaagtt tttgcggaag tgacagaggc 420
 aaagggtgct acccaagccc ctcttacctc tctggatgct ttctttaaca ctaactcacc 480
 actgtgcttc cctgcagaca c 501

<210> 485
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 485
 cgcactcttg gaacattctt tctttcaaca acccaaggca tgcttctatc tccttttgag 60
 gtttccctct aagtgttacc tctaagatag gcttttcctg gacactctat gatggaacct 120
 ctaggatttt ctctattgtt ttatgcttat tttgatatct gattcctaga attttaaata 180
 cattatatat catataaaat aaacctttta atattgaaat gaaaagataa aaatacatat 240
 actaagtga taggtcaaaa gtgtgagatc atcttgaaca ttatcttgaa gagaagatac 300
 caatttacct tctgctcaga tcatggtgta cgatatcaca acctgcctag aataactctc 360
 cttttctgaa ccatttattc actacttttg tcttccaatt aaatattagc ctgacttcaa 420
 atatcataca ttagtttcct ttgtttatgt aattgaatta tataacatat attcattaga 480
 gcctattttt tttaaaattt ttgt 504

<210> 486
 <211> 501
 <212> DNA

<213> Homo sapiens

<400> 486

```
gagaggtcac tatggcgccct ttctgcagga cgagtgggac ctgctccaaa gaatgatttt 60
gctggcccac gagaaactct ctgttcctgt cacgtgcaaa atccgtgtct tcccggagat 120
tgacaagacc gtgaggtacg cccagatgct ggagaaggcc ggctgccagt tgctgacggg 180
gcacggacgc accaaggagc agaagggggc cctgtcgggt gcagcgtcct gggagcatat 240
caaggctgtg cggaaggctg tggccatccc tgtgttttgc aacgggaaca tccagtgcct 300
gcaggacgtg gagcgtgccc tccgggacac ggggtgtgcag ggcgtcatga gcgcagaggg 360
caacctgcac aaccccgccc tgttcgaggg ccggagccct gccgtgtggg agctggccga 420
ggagtatctg gacatcgtgc gggagcacc cctgccccctg tcctacgtcc gggcccacct 480
cttcaagctg tggcaccaca c                                     501
```

<210> 487

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 487

```
accattattht agcagcaaaa aggaaagttt gaagacatta acaggaactg gttaattgta 60
gtccttatct gaaaaggaca gattgaatgc agccaaatta tggcaaagaa atcagtagga 120
caacccttat aaagggtagt tcttttaaaa aaaatttctt tattggcaac aacataaaag 180
atatgaaaga atcactcata atttatcagc ataacatagc tattctcatt tttgcaattg 240
acttttttagt tcttgaccaa atgtaatttt tattagttgt gattaactga ttttgtgctt 300
tttttaaaaa aaaaaaaaaa ctagaataag acattttgtt tgttaattat tataaatgac 360
tgtattcatt ctgtttatgt accataattt tggatgttcc tacgatgtta aacttttagg 420
ttgtttttta ttgtttgttc ttatagacaa ctctgtaagg gnttttaact gcttttatca 480
ggagaatgtc aaagaagtcc t                                     501
```

<210> 488

<211> 148

<212> DNA

<213> Homo sapiens

<400> 488

```
attctaagga tgaaatggct acagagcaaa ctgcagctga gagaaaactg cttggagttt 60
ggacagaggt ggaattgagt gtccacaggc cagctgagga ggtggtaccc agcactctat 120
gaacccttcg ctcaagtcag cctggagt                                     148
```

<210> 489

<211> 501

<212> DNA

<213> Homo sapiens

<400> 489

```
gctgtggatt cccctccaag tggaggagga tgggcaggct ggggatcctg gggcaaactt 60
ctgctgtcgt cagcatctgc cacagtaggt catggattga cggcagtcaa ggaaaaagca 120
ggagccactc tacggattca tgggtgtaaat tctggatctt ctgaaggagc ccaaccaaact 180
actgaaaacg gagtccctga aataacagat gcagccacag atcagggccc tgcagaaagc 240
```

```

ccaccactt ccccttcac agcctctcgg ggtatgctgt ctgccatcac caatgtgggt 300
caaaacacag gtaaaagtgt cttaactgga ggccttgatg cgttggaatt catcggcaag 360
aaaaccatga atgtccttgc agaaagtgac ccgggcttta agcggacca gacgctcatg 420
gagagaactg tttccttgtc tcagatgtta agggaagcta aggagaagga gaagcagaga 480
ctggcacagc agctcacgat g                                     501

```

```

<210> 490
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 490
attgcaaact gaaagtggac aaagacttaa ggtaaacctg ctccatcatgg tggaaatgctt 60
ccaaatgctg gaaggaggac tttagggcag agttcactaa ggaggcttgt gcttatagat 120
cagtgggcct gaaagaagtt tctctagggt ctgggtgtgt gctgtacgag gtgtaggtag 180
taataatact cttgtcagcc acagtgaagc cccaagctag ccgggatagg ggactgacct 240
tgtacaggca gcatggagaa actaagacag agtgtcctgc ccaagtgatg gcactgggga 300
gcagtcactc aggtttatct ccaccagggc ccaagaaaaa aagaaatgag gcaacctaaa 360
attccatcaa gatagatacc aatatccaag gtgcttggtc ttagcggtgt gggaccacg 420
ttaaggctct tgggtgggaag gtgggaggtg ttttcagcat gagatagggt tcaggctgtg 480
aa                                     482

```

```

<210> 491
<211> 483
<212> DNA
<213> Homo sapiens

```

```

<400> 491
cgcctctccc cgtgatccct ctctcgctaa ccgtaggcgc ttttcgtgaa ggcccggggt 60
tttacagcac ttcgcttttc taaccacgaa cagtgcctgt tcgttcgcag ggccagcaag 120
gagagccccg ccccgcccg ccgcccgcgc ccgcccgcgc gccgcctttg gatcccgcgg 180
actccgcccc gcccggcctc ccaggcatg gcgcccgtgc gcttctccgc caatctgtcc 240
tggctattcc ccgagctccc cggcctcccc gcgcggggtgc gggccgcggg cagctcgggc 300
ttcgaggccg tcgaggtggc ctggccgtac gcggagacgc ctgaggcgct ggcgcgcgcc 360
gcgcgagaag cggggctgcg gcttgtactg atcaacacgc ccccgggaga ccaagagaag 420
ggggaaatgg ggctgggggc cgtccccggg agacaggcgc ccttccgaga gggactggag 480
cag                                     483

```

```

<210> 492
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<400> 492
acctcatctg ctttgctttg gcatgtgagc cttgcctaag ggggcatatc tgggtcccta 60
gaaggcccta gatgtggggc ttctagatta cccctcctc ctgccatacc cgcacatgac 120
aatggacca atgtgccaca cgctcgctct tttttacacc cagtgcctct gactctgtcc 180
ccatgggctg gtctccaaag ctctttccat tgcccaggga gggaagggtc tgagcaataa 240
agtttcttag atcaatcaaa aaaaaa                                     266

```

```

<210> 493
<211> 483
<212> DNA
<213> Homo sapiens

```

<400> 493

```

gccgctcgcg ctaggagagc gggcttcggg cacttgacat ggcggcagt ggcggcgactg 60
cagcagcgaa ggggaatggg ggcggcggtg gcagggccgg ggcgggggac gccagcgcca 120
cgcggaagaa gaagggcccg gggccctgg ccacggcgta cctgggtcatc tacaatgtgg 180
tgatgacagc cgggtggctg gttatagcgg ttggtctggt ccgagcatac ctggctaagg 240
gtagctacca tagcctttat tattcaattg aaaagccttt gaaattcttt caaactggag 300
ccttattgga gatattacat tgtgctatag gaattgttcc atcttctgtt gtcctgactt 360
ctttccaggt gatgtcaaga gtttttctaa tatgggcagt aacacatagc gtcaaagagg 420
tacagagtga agacagtgtc ctctgtttg ttattgcatg gacgatcacg gaaatcatcc 480
gtt 483

```

<210> 494

<211> 301

<212> DNA

<213> Homo sapiens

<400> 494

```

gtggctatatt tcatggaata tcttttatca gcctttcagt ttaatttat ttgtgtcttt 60
ggatctaaag tcagtttggt ttggacaatg tgtagtttga tcatgatttt aaaaaatcta 120
ttctgaagct ggggtggttca cacctgtaat ccagcactt tgggaggatc tcttgagccc 180
aggagtggga gactagcctg gtctacaaag tgagactctg tttctacaaa aaaataaaat 240
aaatagttgg gtgtgggtgg atgcgcttgt ggttccagct acttgggagg atgagggagg 300
a 301

```

<210> 495

<211> 496

<212> DNA

<213> Homo sapiens

<400> 495

```

cgaagtgaag gctaggggcc cgtacgcgcc gcctgactg tcgccagcag ctctcggcg 60
gccccaccgc agccgcccgt cctgaggcg cgggaggccc gcgccccgcg gctcgctgtg 120
cgtgggaggg cgcgagcgaa cgcgggcgag gagcgccga gccgctgaag aggagctggg 180
cgccggccgc ccggccgcgc tcggcccgcg gatcgccctc gccgggtctt cgccggcccc 240
ggcccctggc gagatgccgt gtggggagga ttggctcagc caccgctgg gaatcgtgca 300
gggattcttc gcccaaaatg gagttaatcc tgactgggag aagaaagtaa ttgagtattt 360
taaggaaaag ctgaaggaaa ataagtctcc taagtgggta ccatcactga acgaagtcc 420
ccttcattat ttgaaaccta atagttttgt gaaatttcgt tgcattgattc aggatatgtt 480
tgaccctgag ttttac 496

```

<210> 496

<211> 494

<212> DNA

<213> Homo sapiens

<400> 496

```

aaactatata aaaagtgatt tgtacagaac tttatttttag ctctttttta aaaatgattt 60
gcatggttag aaaacggcga ggacagccag gggagggaag ggcctctagg gaactttgca 120
ctttctatac ctttgtacta tgcactgccc tattgattct acaccaata atgatattac 180
ttgaacccat ctgtaagaaa ctgcttcgga aattcatttg tgtgtatgta aataacacaa 240
catagaaaca ggaaggga aaagtctgca gtaatgcacg tttttttttt ctttcctgtt 300
tattttcggt tttgctttta gtccttttat ttttaattcc ctttttggtt ttcttttttg 360
gttttggttc cttttgggtt tatgggtgcc ctgatactcc agcagagatc agaaggctac 420

```

agatccattc tatccatccg ttatgtggct ttgccatccc agcttggagt gtctttacaa 480
agataataac agtt 494

<210> 497
<211> 184
<212> DNA
<213> Homo sapiens

<400> 497
gcgcgccgcg gctggcaggg tgtgcgtgag tttgggtggcg gccggctgtg cagagacgcc 60
atgtaccggc tcctgtcagc agtgactgcc cgggctgccg cccccggggg cttggcctca 120
agctgcggac gacgcggggg ccatcagcgc gccgggctgc cgcctctcgg ccacggctgg 180
gtcg 184

<210> 498
<211> 471
<212> DNA
<213> Homo sapiens

<400> 498
tcttactaca aatggagatg gctattatga aacagcatga gcatgagcct tttatctttt 60
atacttagtg atatactttg cttgaaaatc actcagcaaa gtagttcaca tgatgtgtat 120
catatttgaa gtgtgggttt tctcaaaatc attgacttta aggagctcat ttctgaacaa 180
aaaggtttgc tctgtggaaa aatcaatcac tgccaggatt ctttcatttc tgtactattt 240
tgtataattg aatttgttca cttctctcac accagcaagt gttttacagg tgccttggat 300
taaaacaaaa ttgattttta aatttttatg taagtcatg tgtctatgat gccactttta 360
aaaggaaaat gcaattgcgt aatggcttat atccttattt aatgtaccta tttgtgttct 420
aataattgtt tgaatgtttt attcagctta aaactttacc atgaagtcac a 471

<210> 499
<211> 478
<212> DNA
<213> Homo sapiens

<400> 499
aggtgggaaa agcggaggag gacgcccagg aggaggcggc ggcggcggcc gggaagtga 60
aggtctcgca aagttcagcg gcggctgcgg gcgccgagcc ccgggctagc ggcagacgag 120
cccgcagggc cgctccgcgg ggcagcgcag ccaggccggc tatggtcccg gggctcccgc 180
cgccccccag gtgcccggga cccgccaggc cgggtgcgcga gggtcacccc acctccccgc 240
gcggtcccgg cccctggctc ccagctgccg gcgaccgctg accgagcccg gcgccccagg 300
aggaggaaga aaccaggggc ccgttccctc ccgaggacgg cggcgcttca tcccgcagcc 360
cagaggtctc ggctccctcc ggcacccgcc cggcccggtc gctcccggct cctcccggcc 420
atggggagct gcgcgcggct gctgctgctc tggggctgca cggtggtggc cgcaagga 478

<210> 500
<211> 495
<212> DNA
<213> Homo sapiens

<400> 500
gggggcttct ggcttgggtg ggaccaggag ggggcagaag gcacctgtc gtggctgggc 60
accgtcttcg gcgtgctggc tagcctctgt gtctcgctca acgcatcta caccacgaag 120
gtgctcccgg cggtggaagg cagcatctgg cgctgactt tctacaacaa cgtcaacgcc 180
tgcgtcctct tcctgcccct gctcctgctg ctccggggagc ttcaggccct gcgtgacttt 240


```

gcccagctgg gcagtgccca cttctggggg atgatgacgc tgggoggcct gtttggttt 300
gccatcggct acgtgacagg actgcagatc aagttcacca gtccgctgac ccacaatgtg 360
tcgggcacgg ccaaggcctg tgcccagaca gtgctggccg tgctctacta cgaggagacc 420
aagagcttcc tctggtggac gagcaacatg atggtgctgg gcggctcctc cgcctacacc 480
tgggtcaggg gctgg                                     495

```

<210> 501
 <211> 494
 <212> DNA
 <213> Homo sapiens

```

<400> 501
ctgcggtgtg gttggtggtg agatgacgac cttagtgtct gataatggag cttacaacgc 60
caaaatcggt acagccatga aaatgtgtcg gttattccta attgtcagtt ccggtcaaaa 120
acagcacgtc ttaaaacttt tactgccaac cagatagatg aaataaaaga cccttctgga 180
ctctttttaca tcctcccttt tcaaaagggc tacttggtga attgggatgt tcagagacaa 240
gtttgggatt accttttttg aaaagaaatg tatcaggttg attttttaga tactaatatt 300
attatcactg aaccatactt taacttcact tcaattcaag aatcaatgaa tgaaattcta 360
tttgaagaat accagtttca agcagtatta agagtaaag ctggggctct cagtgcacat 420
aggtatttcc gagataatcc ttccgaatta tgctgtatca ttgttgatag tggatatattcc 480
tttacacata tagt                                     494

```

<210> 502
 <211> 479
 <212> DNA
 <213> Homo sapiens

```

<400> 502
ttgtataatg ctgaatgtgt ccagagggac aagtttgcag aacctcatat tggatatatta 60
aagaaataat aaaataaaaa agcacttttag gttattttat ctttaaccgg attgctgcaa 120
tttcttttgt gtgtatatat acatatatat actttccaca aagttttatt ttttgctcag 180
aataaaaagt taaattgagg tgtgaaaaga aaagcactta ccttggtgca atatgtgtag 240
cttgatggtc gttgtcccat gtggccctgg cctggcagcg tttttccgct caatcagccc 300
tgtgctgtga gattgtccat agggaaacac tattatgcat tctcagcaac cgctcaatct 360
atgcaagcct tccctgtgtg ccccagggcg cccctcagg ctctctgaag aactgctgtg 420
ggtcctgttt tctgctgact gttgaggccc tttttcatca cttcttggtc tctcgccat 479

```

<210> 503
 <211> 451
 <212> DNA
 <213> Homo sapiens

```

<400> 503
ttgtggggcgg ggtgggtttc ctaatctggt ttcgtctgcc tggttcatct gtgtgcatg 60
gctccggact cggatccctt ccctgaaggg ccgctcttaa agctgctacc cttagacgct 120
agagaccggg gcacccagcg ctgcgcctg ggcccggccg ccctccacgc cctgggcgcg 180
cgcttgggct cggcagtgaa gatctcgcta cccgacggcg gctcctgcct ctgcactgcc 240
tggcctcggc gggacggagc ggacggcttt gtgcagctgg acccgctgtg cgcgagcccc 300
ggggcggcgg tcggggcgct gagatcccg aggagtctca gcctgaatcg cctcctccta 360
gtgccctgtc cgcccctgcg gcgcgtcgcc gtgtggccgg tgttgcgaga gcgggcaggc 420
gcgcccgggtg ccggaatac agccgcgggtg c                                     451

```

<210> 504
 <211> 462

<212> DNA
 <213> Homo sapiens

<400> 504
 cagtggggaa ggggagagat gccgaggtgg tcagtatcct gactttcaga ggcctttttt 60
 tgtttggttt aatttttgct agattgatat taaaaactca tgtggaggaa ctcaaggaat 120
 gtttagaaga ccaaaagtcc ccaatgacag gaacaaaagc aaccaatttt taactttctc 180
 ttctcattcc tgttttcatt gatttcccac atgtagtcct tttgctcagg aagtctttgg 240
 ggaaattaag gatctttgaa gctctgaaat aggtgatcag gttagtgggt tctgtcagct 300
 gtctaagagg ttggaaaatg aactactcaa gatagtcacg aaaatactga aagtttgatt 360
 tttctttcca tatttgaatt aattttttct gtttgactgg aaggggtttt tgtataacta 420
 aaacctcagc gcataaagga gatttaaaag gagcacatga tt 462

<210> 505
 <211> 136
 <212> DNA
 <213> Homo sapiens

<400> 505
 tcgattatat cacacatttc agttgggagg ttgtctcaac ctgtgaccac catctgagtt 60
 agctggcaga cttctaggag gtctgtctg aggtagaatc agaaatggct tccctccttc 120
 tcccataaaa aaaaaa 136

<210> 506
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 506
 ggggtacaga gacagcagcc tgcggagcgt tctagggcagg acagggcagc aaacctgaca 60
 tgcggagctg ggggcagggg taatggggcc agggggtaat ggcagggtgag gccatggcct 120
 agagggttgc catgcttggt gcaggggagg agaggcccag gtgtggctgc agtggcagca 180
 ggagtcagtg tggctgtgcc cagtgggatg ttgtcagaga atggacctgg ctgctgggaa 240
 aggtgattgt gtttgtctga gccacactgg actcttctct gaccagcaag cacattctgg 300
 agatgcgggg cagagacgag gcctccgtga gaacctttga ggtgtgaggg ccttgatctg 360
 ggggtgcagcc tccagctttc tgcttacaga gcaggacctg caggagctcg ctgactgcct 420
 gcacagtgga aggaagacct gtttctttta ctttccttga ggagaa 466

<210> 507
 <211> 101
 <212> DNA
 <213> Homo sapiens

<400> 507
 atgatttaat tttttaaaact gtagcaattg gatagataat tttatttgaa attttacaca 60
 ctgaaagctc taaataaaca gatacattca cattcaaaaa a 101

<210> 508
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 508
 gacaatgcaa gtaacctcaa atgagagtgt ggaaaggcgg gaaagcagcc agagcttcat 60

tgttatgaaa aaagagtgaa atgtgctctg ttgaagagtt gaagaatgaa caaaggatat 120
 ttagtttgaa tggaagctca gtaatgagaa atgagaatgg ttgagttctt aaaagaagca 180
 agtaaagaag aggatttggt ggctactatt ctcatcagt gaatctcatw ccacccttgc 240
 ct 242

<210> 509
 <211> 101
 <212> DNA
 <213> Homo sapiens

<400> 509
 cctttgctcc ctttttccaa tttcttattg catatctttc tgtattacaa caaaatgata 60
 tgcaataaga aattggaaaa agggagcaaa ggcgaagggg y 101

<210> 510
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 510
 gcagggttcgg gaccatgagt tggattcctt ttaagattgg gcagcccaag aaacagattg 60
 tgcccaaaac agtggagaga gactttgaaa gggagtatgg aaaacttcag caccatgtca 120
 aaatctgccg tgaagatata cttggactta ctctccaatc ccctctgtga gcaagaccag 180
 gaccttctga acatggtgac ggccctggac acggccatga agcggatgga tgccttcaat 240
 caggaaaagg tgaaccagat ccagaagact gtgatcgagc ccttaaaaaa gttcggcagt 300
 gtcttcccg gctcaacat ggctgtgaag aggcgggaac aggccttgca ggactacagg 360
 aggctgcagg ccaagggtgga gaagtatgag gaaaaggaga agacggggcc agtgctggcc 420
 aagctccacc aggcacgaga ggagctgcgg cctgtgcggg a 461

<210> 511
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 511
 ggctttctga tatttctaaa attgacctgg aatcaaccat tgacatgtcc tgtgctaaat 60
 atgaattcac tgatgccctg ctgtgccatg atgatgagct ggaagggcgc cggattgcct 120
 tcactctgta cctggttcct ccctgggaca ggagcatggg tggtagcctg gacctgtaca 180
 gcattgatga acactttcag ccgaagcaga ttgtcaagtc tcttatccct tcgtggaaca 240
 aactgggtttt ctttgaagta tctcctgtgt cctttcacca ggtgtctgaa gtgctgtctg 300
 aagaaaagtc acgtttgtct ataagtggct gggttcatgg tccatcattg actcggcctc 360
 ccaactactt tgaaccccc atacctcga gccctcacat cccacaagat catgagattt 420
 tgtatgattg gatcaaccct acttatctgg acatggatta c 461

<210> 512
 <211> 686
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(686)

<223> n = A,T,C or G

<400> 512

```
actgacctga aggagacctg agagtccttt ccctttttga gtttgaatca tagccttgat 60
gtggtctctt gttttatgtc cttgttccta atgtaaaagt gcttaactgc ttcttggttg 120
tattgggtag cattgggata agattttaac tgggtattct tgaattgctt ttacaataaa 180
ccaattttat aatcttttaa tttatcaact ttttacattt gtgttatttt cagtcagggc 240
ttcttagatc tacttatggg tgatggagca cattgatttg gagtttcaga tcttccaaag 300
cactatttgt tgtaataact tttctaaatg tagtgccttt aaaggaaaaa tgaacacagg 360
gaagtgactt tgctacaaat aatgttgctg tgtaagtag tcatattaaa tacatgcctt 420
ctatatggaa catggcagaa agactgaaaa ataacagtaa ttaattgtgt aattcagaat 480
tcataccaat cagtgttgaa actcaaacat tgcaaaagtg ggtggcaata ttcagtgcct 540
aacacttttc tagcgttggt acctcgccgc gaccacgctg gaattccgga agggcctgtc 600
ctangatcca gtgtgggtgga attctgcaga tatccagcac agtggcggn c gctcgagtct 660
aaanggcccg ttttaaccgc tgatca 686
```

<210> 513

<211> 429

<212> DNA

<213> Homo sapiens

<400> 513

```
catgaacgac accgtaacta tccgcactag aaagtctcatg accaaccgac tacttcagag 60
gaaacaaatg gtcattgatg tccttcaccc cggaaggcg acagtgccta agacagaaat 120
tcgggaaaaa ctagccaaaa tgtacaagac cacaccggat gtcattcttg tatttggttg 180
cagaactcat tttggtgggt gcaagacaac tggctttggc atgatttatg attccctgga 240
ttatgcaaag aaaaatgaac ccaaacatag acttgcaaga catggcctgt atgagaagaa 300
aaagacctca agaaagcaac gaaaggacg caagaacaga atgaagaaag tcagggggac 360
tgcaaaggcc aatgttggtg ctggcaaaaa gccgaaggag taaagggtgt gcaatgatgt 420
tagctgtgg 429
```

<210> 514

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> n = A,T,C or G

<400> 514

```
aaaactttct ctacttatct agttttntcc tctgagttca accgctgctg gattcgtttg 60
gcataacttt gtgccatgga gttaatgata gataggatga agtaacacac catgacaacg 120
accaactttt caaacatcca ggacaaccag ttttctccct gtggtgtgcc catttcgctt 180
ttgtggtgaa gcttctgccg ttgagcctcc aggtactcct gaaatggctt ctgcagagat 240
ggacctatgc cggggacagc actggaagca gggtagagta gcccaaagaa aaagacacat 300
ttgggaagaa aagcaggaaa aacgttaaag aaaatgtact taccac 346
```

<210> 515

<211> 549

<212> DNA

<213> Homo sapiens

<400> 515

```

ctgaccagga ctgtgaagat gcggttccgc tgcgaagatg gggagacatt ttccaggaac 60
gtcatgatga tccagtcctg caaatgcaac tacaactgcc cgcattgcaa tgaagcagcg 120
tttcccttct acaggctgtt caatgacatt cacaatttta gggactaaat gctacctggg 180
tttccagggc acacctagac aaacaaggga gaagagtgtc agaatacaga tcatggagaa 240
aatgggaggc ggtggtgtgg gtgatggaac tcattgtaga aaggaagcct tgctcattct 300
tgaggagcat taaggatatt cgaaactgcc aagggtgctg gtgcggatgg acactaatgc 360
agccacgatt ggagaatact ttgcttcata gtattggagc acatgttact gcttcatttt 420
ggagcttgtg gagttgatga ctttctgttt tctgtttgta aattatttgc taagcatatt 480
ttctctaggc ttttttcctt ttgggggttct acagtcgtaa aagagataat aagattagtt 540
ggacagttt 549

```

<210> 516

<211> 382

<212> DNA

<213> Homo sapiens

<400> 516

```

ccgctcgtca gactccagca gccaaagatgg tgaagcagat cgagagcaag actgcttttc 60
aggaagcctt ggacgctgca ggtgataaac ttgtagtagt tgactttctca gccacgtggt 120
gtgggccttg caaatgatc aagcctttct ttcattccct ctctgaaaag tattccaacg 180
tgatactcct tgaagtagat gtggatgact gtcaggatgt tgcctcagag tgtgaagtca 240
aatgcatgcc aacattccag ttttttaaga agggacaaaa ggtgggtgaa ttttctggag 300
ccaataagga aaagcttgaa gccaccatta atgaattagt ctaatcatgt tttctgaaaa 360
tataaccagc cattggctat tt 382

```

<210> 517

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(323)

<223> n = A,T,C or G

<400> 517

```

acgagcgtag gacgatgctt ctcttntgtc agcctgcaac tgagtcagga ttgaataactt 60
ggaccccagg tctggagatt gggatactgt aatgcttctt tgattattata acataaaaagc 120
accactgttc tgttcatttc cttagctgttc taattaagaa aactattaag atgagcaacc 180
acatttagaa atgtttattg acaggctctt tcaaataatg ctttttctaata taatagccaa 240
agatttcata tctaactttg taaccagaat tatacagtaa gttgacacca cttagattta 300
aaggcagaca gttttgcttt agt 323

```

<210> 518

<211> 605

<212> DNA

<213> Homo sapiens

<400> 518

```

ctggataacc aggctggggc cccacactgt ggaacaaacc cacagcttgc tcaggatcca 60
tcccagaatc agcagacatc aaatccaacg cacagtctcag aagatgtgaa gccaaaaacc 120
ctcccgtctg ataaaagcat taaccatcag atcgagtctc ccagtgaag gcggaagtct 180

```

```

ataagtggaa agaagctgtg ctcttcctgt gggcttcctt tgggtaaagg agctgcaatg 240
atcatcgaga ccctcaatct ctatcttcac atccagtgtt tcaggtgtgg aatttgtaaa 300
ggccagcttg gagatgcagt gagtgggacg gatgttagga ttcgaaatgg tctcctgaac 360
tgtaatgatt gctacatgcg atccagaagt gccgggcagc ctacaacatt gtgacacggc 420
tttcaagctt ccggatcact caccatttct ttactgagag tgtcccctgg caactgctta 480
acaaaatccc aagctcaggg gcttctcagc atttacctaa tttctgaaag gctcttctga 540
aaggtggtat ctgttctttc gtagcacagt gtttatgttt ttctgttta ttggtttggt 600
ttttt 605

```

```

<210> 519
<211> 462
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

```

```

<400> 519
ctgctggtca tgncccttggc agtcttttgt gcaaaataag gcatattnga gctccacatt 60
aaccttgccg caggcgncta cttgctctgc atgctgtanc agngcacgtc ctccttcccc 120
ttggtggtgt agcctgngan aggctgccc a tacttatcca cacaccagca naagccccgc 180
ttctgcctt tggaaggcg acactgcttt ttcttataaa atcccttctt gtcacagtgtg 240
ggaatgtgna caccctggg actcagcaca ttgaggaact tcaagtgtt cagtgtgnct 300
tccatttctc tacggcangn accatattct gtctcccgtc tggactcgga ggagaagtgc 360
tgggtatctg tgctctgaga ctcgtagtca actttgtagc gctggctgnc tttagcatgc 420
cctttcttga tgatgantat ctttgaatgg aggggggtgga ac 462

```

```

<210> 520
<211> 565
<212> DNA
<213> Homo sapiens

```

```

<400> 520
actcgtaata aatatgcac cggaacaag ataaaaggct acacctcgtc aggcaccta 60
caaaaatgtc tcaagtttta tatactctgc agcatttctg tgcgggggca gaaggggctg 120
ttgtgtatct tctgaagtgc tgtgacaaaa ggtcctttca catttctttg gagcattttt 180
gaaattgctt aactataatt aaacaactta agaaaagtaa caccaagctt taaagccatt 240
tttgctttgc tgtcatttgt ctttatccaa tacagatcaa catatcatcc agcacagcca 300
agcaccact gaggccaagc agccttgtgg gacatgggcc ctgtcagagc aggccctact 360
ttcagttaaa tactttggag agtccaggat tctgtctctc tccctcaaca agattaatgc 420
cataagggaa gttgcaagcg tgtagaaac atttttaacc tgaaagtaaa gtgaacagaa 480
atattttttt ttccgagacc tctgctatgc accataatat taccatatca gggtttttag 540
cttcaaagtt gaaaaacaga ttggt 565

```

```

<210> 521
<211> 127
<212> DNA
<213> Homo sapiens

```

```

<400> 521
acatggctga cgtcaccgtc cagtgcacaaa tcaaaaaaga aagaaagaaa aaccccaaag 60
aaagaggatt ttccagtggg gaacatgggt ggctgattag gcttctatta gattacattc 120

```

atttcac

127

<210> 522
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(642)
 <223> n = A,T,C or G

<400> 522
 actatgtttc gtaaattaaa taggtntggc ccagaagacc cactcaattg cctttgagat 60
 taaaaaaaaa aaaaaaaaaa aaagaaaaat gcaagtttct ttcaaaataa agagacattt 120
 ttcttagttt caggaatccc ccaaatcact tcctcattgg cttagttaa agccaggaga 180
 ctgataaaag ggctcagggg ttgttcttta attcattaac taaacattct gcttttatta 240
 cagttaaatg gttcaagatg taacaactag ttttaaagggt atttgctcat tggctctggct 300
 tagagacagg aagacatatg agcaataaaa aaaagattct tttgcattta ccaatttagc 360
 aaaaatttat taaaactgaa taaagtgtg ttcttaagtg cttgaaagac gtaaaccaaa 420
 gtgcacttta tctcatttat cttatggngg aaacacagga acaaattctc taagagactg 480
 tgtttcttta gttgagaaga aacttcattg agtagctgtg atatgttcga tactaaggaa 540
 aaactaaaca gatcaccttt gacatgcgtt gtagagtggg aataagagag ggctttttat 600
 tttttcgttc atacgagtat tgatgaagat gatactaaat gc 642

<210> 523
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 523
 ctgaaggagc tgatccagaa ggagctcacc attggctcga agctgcagga tgctgaaatt 60
 gcaaggctga tggaagactt ggaccggaac aaggaccagg aggtgaactt ccaggagtat 120
 gtcaccttcc tgggggcctt ggctttgatc tacaatgaag ccctcaaggg ctgaaaataa 180
 ataggggaaga tggggacacc ctctgggggt cctctctgag tcaaattccag tgggtgggtaa 240
 ttgt 244

<210> 524
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(407)
 <223> n = A,T,C or G

<400> 524
 acgttagtgg tgatgtcacc caccctnnng ctggggccga ggatgctctc attgtgcact 60
 gcgtagatga ctctggccac tggggcagag gtgggtttatt tacagctctg gaaaagcgat 120
 ccgctgagcc aagaaaaata tatgagctgg ctgggaaaat gaaagacctg agtttgggag 180
 gtgtcctttt atttcctgtt gatgataaag aatcaagaaa caaagggcaa gatttggttg 240
 ccttgattgt ggctcagcat cgtgatcgtt ccaatgtcct gtctggcatt aagatggcag 300
 ccctagaaga gggcctgaag aagatatatt tagcagcaaa aaagaagaaa gcaagtgttc 360

atcttccacg tattggacat gccacgaaag gttttaactg gtatggt

407

<210> 525
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(276)
 <223> n = A,T,C or G

<400> 525
 acacaggagg caacgtgttt cacatnatag acttcacttc caactccttg gaatgttcat 60
 ttctttggct tacaggagag actagacagg aaggccaggc aatgcttagg caactaaaat 120
 gaggttgggg gtaatgctaa cgtcaccctc acagggatgg ccacggggac tgttatcgc 180
 aagctgggtt tctagacctg ttagctggaa gcatggtgag caccatttct ggacgctcag 240
 gccgtgtcgg gcttcagtca tctccaccac acaggt 276

<210> 526
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 526
 acaattaccc accactggat ttgactcaga gaggaccccc agaggggtgtc tccatcttcc 60
 ctattttatct tcagcccttg agggcttcat tgtagatcaa agccaaggcc cccaggaagg 120
 tgacatactc ctggaagtcc acctcctggc cttgtttccg gtccaagtct tccatcagcc 180
 ttgcaatttc agcatcctgc agcttcgagc caatgggtgag ctctttctgg atcagctcct 240
 tcagctcctt cttgctcagg gtgtgcttgt caccctccct gccggagt 288

<210> 527
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 527
 actttgagct tattgttttt attctgtatt aaatattttc agggttttta acactaatca 60
 caaactgaat gacttgactt caaaagcaac aaccttaaag gccgtcattt cattagtatt 120
 cctcattctg catcctggct tgaaaaacag ctctgttgaa tcacagtatc agtattttca 180
 cacgtaagca cattcggacc atttccgtgg tttctcatga gctgtgttca cagacctcag 240
 cagggcatcg catggaccgc aggagggcag attcggacca ctaggcctga aatgacattt 300
 cactaaaagt ctccaaaaca tttctaagac tactaaggcc ttttatgtaa tttctttaaa 360
 tgtgtatttc ttaagaattc aaatttgtaa taaaactatt tgtgtaaaaa aa 412

<210> 528
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 528
 aaatgcaaaa agtcaaagta ggtaacaggt tggttaattaa agtgtcagga agactggaag 60
 aggcaaaaat caagcagagt tccaataagt gtatgaaaaa aaaaatcata actgaagggt 120
 taagaaaagt ccccaaaggc agaatacaca tatgagcagg aggaataaaa agcttttgga 180


```
tataaccaggc agctttctgt acgactcagg tttacagggtg aaattcctca gtttgagttc 240
agaagaattt gaacttattc cagcaaaaata cttcaatctt tttattactg cctcctcccc 300
catcttcttt ctgggcaaag ggatgcttgg attagggtcca aagctcctgg cagggggagg 360
ggccatgtgt cacagcataa cagacgggtg caagtgcttt actgagcagg ggtcagggtt 420
gcagcaactc tgatagggtc acacaatggc ctccatttta cagcccctcc ttggaggccc 480
actgatcag 489
```

```
<210> 529
<211> 631
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G
```

```
<400> 529
acttgcctaa agtttttata tctgnntctt ctgctgtaaa tcttcccttc ataaatgaaa 60
attttaataa aatcaactat gtggaaatat ataattaaag gaattcacta actgtgattt 120
tcataattta gggacattct cttctagtaa gcatgggtgca ttatttacta gagatataat 180
atgcattaaa acaaaaaaatg ttttctatca tcatagaaaa gtttgagggtc cagggataat 240
catctctgga tacattattt cctaccgtcg tggtagacac tgaacacatt tgaggcttat 300
gactgggttct tttacttaca aatattgttt agacacattt tcaaagtgtc caccaatcaa 360
taataataag gaatggattt tatctatatt gacagttctt tcaaccttaa gagtgaactg 420
ctacaggtaa gattcaatca catttttctc gagaaagcta ttgagaccaa tatgcttttg 480
ttatctaata ggggtggaat gacttataat gctatttact ccaggcaaag agaaaataca 540
acagacatag gatcttgatt tcaacgtagt tctcctccat gtgcatttct ctgtccgttt 600
aggcaatgcc aactgggtcca ccagtgaaca t 631
```

```
<210> 530
<211> 316
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(316)
<223> n = A,T,C or G
```

```
<400> 530
acacatttaa atgactcacg agantnaagt ttttttcaaa tatattaaga tcacaccacc 60
ttgttggtta tcgaaagata ttcaaggaga aagatctgac tctccaaact gcatctgaga 120
ttgccacttt aaacagacct catttcaaac atgcaacaac gccactggta ataaagcttt 180
ggaatgggtg ctcatcttat tatttacta caaacagcat agaaagcaag agaagttggg 240
aatttattct aaaatagaat ggaggttggt atctacagca gcactcctca ctcctctgtt 300
gccattttta gcaagt 316
```

```
<210> 531
<211> 296
<212> DNA
<213> Homo sapiens
```

```
<220>
```

<221> misc_feature
 <222> (1)...(296)
 <223> n = A,T,C or G

<400> 531
 aaagtatcat ttatttgaaa aacatacatt atcattntgt ttttgatatt tgataatgaa 60
 aaaaatcttt gnttgtttat ttctgaaaaa gaactgtatt tagngattat tttagatagt 120
 gatattatan cattcatctg tgtgtaaatt atttcatata gggaagagtt ctgatctgta 180
 cctatgggtt ttattgaaaa caacattgga tgtgcatttc tgtgatgtta tgaatacatt 240
 tctactttat tttgaaacat ttgccaaact aaatactgta acactgtata acattt 296

<210> 532
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 532
 acatatgcac caaattccat tttagaagtt tccatatcat tttcatagaa aacaaagttt 60
 gaaaacaagt aacattttaa cacagcacgg tattctacca caactgaaac ttttttcttc 120
 ttcttcttta caggactcaa caaatctaa aaatgaacta tgctgtagat ttacctcatg 180
 caaagatctt tatgttatct ctgaaaatga aaaggatggc cttttaagca cattttactg 240
 ttttatacta ttatggcaac ttgtgt 266

<210> 533
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

<400> 533
 actcagaagt cactttttaat atcancgaca gaaatatttc actaattcaa ctgaggcaaa 60
 tttcctttct agacaaagga cctagaaatt gagcatgcaa aacatccatc cattcattca 120
 ttcaaataat tagccaattt taccgtcatt taattccacc agaagcaaat actagaatat 180
 ctagaagtag tttgggtaaa gaaacattta cattttaata ttgtgtaatg tcataaattt 240
 ggggctaata taacaccagg tcaaatttga tccctttgta tgtgaggg 289

<210> 534
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 534
 aaaataaaag gttctttaca agatgatacc ttaattacac tcccgaaca cagccattat 60
 ttatttgtct anctccagtt atctgtatct tatgtaatgt aattgacagg atggctgctg 120
 cagaatgctg gttgacacag ggattattat actgctatct ttcctgaat ttttttctt 180

tgaattccaa ctgtggacct tttatatgtg ccttcacttt agctgtttgc cttaatctct 240
acagccttgc tctccggggn ggtaataaaa atgcaacact tggcattttt atg 293

<210> 535
<211> 408
<212> DNA
<213> Homo sapiens

<400> 535
acttgaacac ttaaagagaa aaactctaaa taaagtcata gaggggatgg tagagatgac 60
cacagaaaat gaccacggag agtattatga agattgcaag attagacatt gatgatgtaa 120
attactccct ttctagataa aataatccat agatgtttat gaatcatatt tgtatgatta 180
ttgctgttac tattattttg acacattatt tattattatt gttgtcacta ttattacat 240
taagatagca ggcgtaaaac tgtactgggt ccttcagtag tgagtatttc tcatagtga 300
gctttattta tctccaggat gtttttgtgg ctgtatttga ttgatatgtg cttcttctga 360
ttcttgctaa tttccaacca tattgaataa atgtgatcaa gacaaaaa 408

<210> 536
<211> 184
<212> DNA
<213> Homo sapiens

<400> 536
acctctcatc aaggctctgc ctacaggcac attgtgatgt atctctgcac tgatcaccta 60
ggatcatgtaa ctttttttcta ggctctacct acgatggcat tgtgacataa ctctgcacta 120
atcatccacg tgatgtaact cttgtctagg atgtgcctaa attaactttt tgacgtaacc 180
ctgt 184

<210> 537
<211> 311
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(311)
<223> n = A,T,C or G

<400> 537
ccacagtgtg atcatatagc atctntaaca tttcatctag gattatctag tatagatctt 60
actatatttg gggctatggt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat gggatgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc cccagcaage cattcctcct tcctgttctg 240
atattactat tctttttttac attgtgctaa ggaggacaaa aggtgagaga tgaaaataaa 300
gccttgccct t 311

<210> 538
<211> 302
<212> DNA
<213> Homo sapiens

<400> 538
aaaataaaaa agcaaaaact cttgtggtac ctagtcagat ggtagacgag ctgtctgctg 60
ccgcaggagc acctctatac aggacttaga agtagtatgt tattcctggt taagcaggca 120

```

ttgctttgcc ctggagcagc tattttaagc catctcagat tctgtctaaa ggggtttttt 180
gggaagacgt tttctttatc gccctgagaa gatctacccc agggagaatc tgagacatct 240
tgcctacttt tctttattag ctttctcctc attcatttct tttatacctt tccttttttg 300
gg                                              302

```

```

<210> 539
<211> 396
<212> DNA
<213> Homo sapiens

```

```

<400> 539
actgtttatt tgctccttct cttcatgcct gtggctggat gtcccacaac actataagaa 60
atataagtca agccctttgt gttaagcaag aactacagac tccatctttt caccctaatc 120
atgaatgacc aataaaaagc aagttattcc agaggaagaa gcagcccttg aaatgttaag 180
gcttaggctt gaaaggtgaa gagcaggaat tctctctttc aaatcctaga gcataaaccc 240
atgtgtggcc aagttagatc agccctcaag ggcacatgcc aagggcagag cagcccatgt 300
agacagcttc ggagggcatg ggggtgtagg gagttcgggg tagctcctca ttaactattt 360
gttgggtgag taaaggggtg aggctcagtg gcaggt 396

```

```

<210> 540
<211> 634
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(634)
<223> n = A,T,C or G

```

```

<400> 540
ccaaaaacaa gatgaccaga tttgnttttna gcttgatgac cctacaggtc gtgctatgat 60
atggagtcct catgggtaaa gcaggaagag agtgggaaag agaaccaccc cactctgtct 120
tcatatttgc atttcatgtt taacctccgg ctggaaatag aaagcattcc cttagagatg 180
aggataaaag aaagtttcag attcaacagg ggggaagaaa tggagattta atcctaaaac 240
tgtgacttgg ggaggtcagt catttacagt tagtcctgtg tctttcgact tctgtgatta 300
ttaaccccac tctactacct gtttcagatg catttggaat accaaagatt aaatccttga 360
cataagatct catttgcaga aagcagatta aagaccatca gaaggaaatt atttaggttg 420
taatgcacag gcaactgtga gaaactgttg tgccaaaaat agaattcctt ctagtttttc 480
ttgttctcat ttgaaaggag aaaattccac tttgttttagc atttcaagct tttatgtatc 540
catcccatct aaaaactctt caaactccac ttgttcagtc tgaaatgcag ctccctgtcc 600
aagtgccttg gagaactcac agcagcacgc ctta 634

```

```

<210> 541
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<400> 541
cacacaagca gcagagacca tgggaaccct ctcagccctt ccctgcacac agcgcatcaa 60
atggaagggg ctctgtctca cagcatcact tttaaacttc tgggaacctgc ccaccactgc 120
ccaagtcacg attgaagccg agccaaccaa agtttccgag ggggaaggatg ttcttctact 180
tgtccacaat ttgccccaga atcttaccgg ctacatctgg t 221

```

```

<210> 542

```

<211> 287
 <212> DNA
 <213> Homo sapiens

<400> 542
 cctcttctac tatggcagga gatgtggcgt gctgttgcaa agttttcacg tcatcgtttc 60
 ctggctagtt catttcatta agtggctaca tcctaacata tgcatttggt caagggtgca 120
 gaagaggact gaagattgac tgccaagcta gtttgggtga agttcactcc agcaagtctc 180
 aggccacaat ggggtgggtt gggttggtt ccttttaact ttccttttgt tatttgcttt 240
 tctcctccac ctgtgtggta tattttttaa gcagaatttt atttttt 287

<210> 543
 <211> 274
 <212> DNA
 <213> Homo sapiens

<400> 543
 acttgtgaaa cacagctggt cttctgttct gcagacacgc cttcccctca gccacaccca 60
 ggcacttaag cacaagcaga gtgcacagct gtccactggg ccatttgtgt gtgagcttca 120
 gatggtgaag cattctcccc agtgtatgtc ttgtatccga tatctaacgc tttaaatggc 180
 tactttgggt tctgtctgta agttaagacc ttggatgtgg tttaattgtt tgtcctcaaa 240
 aggaataaaa cttttctgct gataagataa aaaa 274

<210> 544
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 544
 ccagggtggt gtcttattgc accatactcc ttgcttcctg atgctgggca atgaggcaga 60
 tagcactggg tgtgagaatg atcaaggatc tggaccccaa agaatagact ggatggaaag 120
 acaaaactgca caggcagatg tttgcctcat aatagtcgta agtggagtcc tgggaatttg 180
 acaagtgctg ttgggatata gtcaacttat tctttgagta atgtgactaa aggaaaaaac 240
 tttgactttg cccaggcatg aaattcttcc taatgtcaga acagagtgca acccagtcac 300
 actgtgg 307

<210> 545
 <211> 570
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(570)
 <223> n = A,T,C or G

<400> 545
 accttagaaa tttgcaacca cctccctgaa agtcttctcc cacgttatta agtgcaatgt 60
 ttatggtaaa tgtagaagca tcatgatgag gacgaagaga acgctgtcgt tcaggggagt 120
 attttactac aaaattcagt agtgcaaacc ccttcgtata atagcctgca aagaccttca 180
 gtgtaactgg ngcaatgaac tcccggataa aatgaagcca tacattctcc agatcaactt 240
 gcttcatgtg gatatcatca gttgggacat tttcataacc accagatata cggctatcat 300
 gatgttttcc cccagaccat ttgccgtaat gttccatttc ttctaccaat tcatcacagg 360
 ctttttcaga aaatatgggg aaccaaaga catctggaca gggctgttca actatatttt 420

```

cagtgaaaat ctttgaataa tcacgggttta tataacttttc cttccaggtcc acaggatttt 480
caaaaatctg ccagaggtca ttgttataat gggaagtatt gtaattagca gtggataata 540
gccttccaaa ttcattgtcta ttagaaatgt                                     570

```

```

<210> 546
<211> 589
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(589)
<223> n = A,T,C or G

```

```

<400> 546
aaaaatactt tttaccaaag gtgctatttc tctgtaaaac actttttttt ggcaagttga 60
ctttatttctt caattattat cattatatta ttgtttttta atattttatt ttcttgacta 120
ggtattaagc ttttgtaatt atttttcagt agtcccacca cttcataggt ggaaggagtt 180
tgggggttctt cctgggtgcag gggctgaaat aaccagatg cccccaccct gccacatact 240
agatgcagcc catagttggc cccctagct tccagcagtc cactatctgc cagaggagca 300
aggggtgcctt agaccgaagc caggggaaga agcatcttca taaaaaactt tcaagatcca 360
aacattaatt tgtttttatt tattctgaga agttgaggca aatcagtatt cccaaggatg 420
gcgacaaggg cagccaagca gggcttagga tatcccagcc taccaatatg ctcatcgcac 480
taactaggag ggtgagttgg ccctgtctct tcttttttct ggacctcagt ttccttcagt 540
ggagcttggt aaaaatgcac tacnttttga tttgataagg tataaatct                                     589

```

```

<210> 547
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<400> 547
actcctatta ttgactgtag tcaatcaaac ataaaaaggt gaaagtaaaa ttttaattttt 60
tacccttatt ttactgacca atatggaagt tcttggtatc tttaaggctg accttcctgg 120
tattgtgtaa tgattgaatg tatctaaact gtaataattt gaaactgaca aacataacct 180
tctcagactt acaaaactat gttcttttcta aagatacaga tttttattat tttatttttga 240
ctaggaagga tttataaata aatgtaatga aaaatctttg atcttaataa agt                                     293

```

```

<210> 548
<211> 98
<212> DNA
<213> Homo sapiens

```

```

<400> 548
aaacaaaggt tgagatgtaa aaggtattaa attgatgttg ctggactgtc atagaaatta 60
cacccaaaga ggtattttatc tttacttttt tttgtaca                                     98

```

```

<210> 549
<211> 121
<212> DNA
<213> Homo sapiens

```

```

<400> 549
acatgcatat ttcaaagacc tgtaaattggc gtccactttg gattcttaca tgaaacgatt 60

```

cagtgcacat tgtaagccta aggaccacgc aaaagggttt cccacatatt aagtattcag 120
t 121

<210> 550
<211> 509
<212> DNA
<213> Homo sapiens

<400> 550
acaatagtat acattttata atgatgaact tataatgatt aaggacatt tctataaaaa 60
tactacaata gttttatgca caacttccca ttaaaaatga gatttcttat ttgtttgtct 120
gtttttactc tgggagtaat acttttttaa ttacctttac atatatagtc actggcatac 180
tgagaatata caatgatcct ggaaattgca gtaacaaaag cacacaacga ttatagtaac 240
tataagatac aataaaacaa ataaatgtga aagtagattc atgaaaatgt attcctttaa 300
aatattgttt tctacaggc ctattttaaca agatgtttca ttttactgta tattttgtag 360
ttaatataaa tgttgctcta atcagattgc ttaaaagcat ttttattata tttatgttgt 420
tgaactaata tatgaaataa gttaatgtag ctcccacaag gtaaaacttca ttggtaagat 480
tgcactgttc tgattatgta agcatttgt 509

<210> 551
<211> 427
<212> DNA
<213> Homo sapiens

<400> 551
accatgggta tatgattaat cttgggacaa agaattttat agaaattttt aaacatctgg 60
aaaagaagct taagttttat catccttttt tttctcgtga attcttaaag gattatgctt 120
taatgctgtt atctatctta ttgttcttga aaatacctgc attttttggg atcatgttca 180
accaacatca ttatgaaatt aattagattc ccatggccat aaaatggctt taaagaatat 240
atatatatatt tttaaagtagc ttgagaagca aattggcagg taatatattca tacctaaatt 300
aagactctga cttggattgt gaattataat gatatgcccc ttttcttata aaaacaaaaa 360
aaaaaataat gaaacacagt gaatttgtag agtgggggta tttgacatat tttacagggt 420
ggagtgc 427

<210> 552
<211> 340
<212> DNA
<213> Homo sapiens

<400> 552
cctcaaggcg gtccaattat ccacttgcag attctacaga aagagtgttt caaaactgct 60
ctgtcaagag aaatgggtcca ccgtgtgtgt ggaatgcagc catcacacat tagtttctga 120
gattgcttct gtcttggttt tatggggaga tatttccatt tctagcatag gcttcaaggc 180
gctctaaata tccgcttggg aatactacaa aaacagtgtt tcaaaactgc tgtatccaaa 240
ggaagggtgcc actcgtgag ttgaatgcac acatcacaaag gaagtttctg agaattcttc 300
tgtctagatt catacgaaga aatcccgttt ccaacgaagg 340

<210> 553
<211> 549
<212> DNA
<213> Homo sapiens

<400> 553
acttgagctg tgaggtcac ggaatcccga cacctgtcct catctggaac aaggtaaaaa 60


```

ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
ttcagacccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcctc 180
taagtaagga agatgctgga gaatatgagt gccatgcatc caattcccaa ggacaggctt 240
cagcatcagc aaaaattaca gtgggttgatg ccttacatga aataccagtg aaaaaagggtg 300
aaggtgccga gctataaacc tccagaatat tattagtctg catgggttaa agtagtcatg 360
gataactaca ttacctgttc ttgcctaata agtttctttt aatccaatcc actaacactt 420
tagttatatt cactggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480
tctacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
atactttttt

```

<210> 554
 <211> 321
 <212> DNA
 <213> Homo sapiens

```

<400> 554
acctaataat atgttaacat aaacataaca acacacatat tatttttcta ccccttggca 60
actgaaaatg aagttaccat tcctaggcca aattttttaga caaagctttc taaaaccatc 120
tttataaagt aaattcagat atgcttacaa taaaagaca taaaagattc atcctgagat 180
gaattctgag tcaataacta aaaaccattt ctaccagtgc atcactacca tgtaatccat 240
tctacgcaag ctctacaaat attgagtcaa atcctgtctg tcagaaaatg aagacccaat 300
aagtttgccg aagtattcag t

```

<210> 555
 <211> 322
 <212> DNA
 <213> Homo sapiens

```

<400> 555
ctggatcccc agaatactgg aacaatagag ctcgacctta tctcttggct ctgtttctca 60
gtactttgaa gttataacta atctgcctga agactttctc tgatggaaaa tcagccaagg 120
actaagcttc catagaaata cactttgtat ctggacctca aaattatggg aacattttact 180
taaacggatg atcatagctg aaaataatga tactgtcaat ttgagatagc agaagtttca 240
cacatcaaag taaaagattt gcatatcatt atactaaatg caaatgagtc gcttaaccct 300
tgacaaggtc aaagaaaact tt

```

<210> 556
 <211> 286
 <212> DNA
 <213> Homo sapiens

```

<400> 556
aaaaaatatg tatctaagaa tgttctaggg cactctggga acctataaag gcaggtattt 60
cgggccctcc tcttcaggaa tcttcctgaa gacatggccc agtcgaaggc ccaggatggc 120
ttttgctgcg gccccgtggg gtaggagga cagagagaca gggagagtca gcctccacat 180
tcagaggcat cacaagtaat ggcacaattc ttcggatgac tgcagaaaat agtgttttgt 240
agttcaacaa ctcaagacga agcttatctt tgaggataag ctcttt

```

<210> 557
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 557

```

acagaagatg aataataatg aaaaactgtg attttttgac tatcacatac attgtgttaa 60
aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120
tggttcagggt taaataactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180
gaagtgtata caagtgcatt gcaaatgagc tcttttaaaat ttaaagtcca tttccccttt 240
agccaagcat atgtctacat ttatgatttc tttctcttat tttaaagtct cttctgggtt 300
agtttttttaa aaagtttcat catggctgtc atcttggaat ctagcctcca gctcaaagct 360
gagacttcac gcatacatat tctcctttct ggggtgcatct tcacctagtt tctccaagta 420
ttcagagtta aatagcacia cttcttttat atgttcctt 459

```

```

<210> 558
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 558
aaaaaataaa aaacaagaca acaatttagt agaagtaccn ctgggagggga ggggagggga 60
aaaaaggata tacaggggca gngtattct ctgtacagag gtgcananaa aatttcacat 120
anccttanag aatgccttgt ggaaaaaaa aaataggccc caatacttgt tactgccctt 180
tatcaaaact gtgtgcatga cctgcacaaa taaatcaca aaacagtgtt gccacattct 240
tcaaggaaac aaagcaaaat ttagggggnt tcttttcctt ctccttggtt aaagtcattt 300
ttt 303

```

```

<210> 559
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 559
aaagcattta ttaagaattt actcaggcat gatggcccat acttgtaatc ccagctattg 60
ggaaggatga gatgggagga tggcttgagg ccagagggtt gagaccgacc agccagggca 120
acacagttag accccttctc aaaaaaaaaa aaaaaaaaaa agagagtgtg tgattagaag 180
ctaaatagga aagttttgag cttcaagtca gngaggagta aaaaagattt tt 232

```

```

<210> 560
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 560

```

```

ctctgcaaaa ataannataa aaaaataaat aaaatttttaa aaataataaa attcactata 60
tacacatata aagaaataaa aagaagtctc agttgcagct atttgtcaaa attaatatcc 120
atttcttttt atatacggtg aatattgcgc aattatagat ctggattttg aaccacttaa 180
tgaagcggca acaccaggtg ttttgaggtg ttggcattct tcgctgattt ggctgttccc 240
aatgtttaca ttattttaatc ttgcaaaaat ggttctgtgc acttggatgn gaaatgctgn 300
ccagntttat tttttttatg ttgntatcct tggatg 336

```

```

<210> 561
<211> 636
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(636)
<223> n = A,T,C or G

```

```

<400> 561
acattatggg ttttattgct ttcttttatg gtagacctgt taatggggaa aaaatacatc 60
aatcaaata gaatcttata tctgtatgtt aaaatagagc acttacctga agtcagtggc 120
ctggatcata gccctggatc atttcccagt ctgtcctgtg ctgtgtgacc ttggacaagg 180
cgcttcacat ctctgggcct ctatttctcc atttgtaaaa caagtggctg cagtagatga 240
tggctgagag cccttcctgt tcccagatgc cttgggtccaa agaccccacc cctctgctgg 300
tcctgccaac gtgttggtgc tataagctgc ttcagatata aaattggttt atctataatg 360
tttgttcatt taatagcttc taaaaggcct ttttgttata cagtgccttt tttctagtgt 420
tatggacttg gttactgtaa taatgtcttg tttttagcca tgtaactaca aacagatatt 480
ctcttgatgt cttagtaaat ttgcatttga tatatcattg atgagatttt gttgttatgt 540
aatattcttt ggctacgcac ctgtccagca tcttattaac cataatactg ngatcattat 600
ttggaaatat gtcctatgga aagaataaaa gcatgt 636

```

```

<210> 562
<211> 708
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

```

```

<400> 562
acagtccacc ttttgatata tgccatgcct ttgatcaaag aacaggacat aaaaacaaag 60
tcacaatgac attccatagt aaatttgtaa tcagaactcc aatgcaact tcgggctcgc 120
tgagagaaca ctaaggggca ccaaaccctc tgagggttta ctttaagggt cgctgtatgt 180
ttgccttgga caaaaaggct acctaccacg tgctatccag taatatactt aaataagcca 240
atacttagat ctactgtaag gcagatgcta attataaggc attaagtaag caaatagtgc 300
cctcagctac tgcagaagaa aagtcaccact gaggaagaaga aagtcttggt atttttaaag 360
gcaagttttc aagtgtcttc atagtcttat cctctaattc cattaaatcc atactaggag 420
cgtcagttag ggttttcata gcttttgtaa atactttggt ctctgaactg taattagcaa 480
gaagtaaaaa cagaaacgtc aaacgtcaaa tgtttgcttt gttacctgga ggactaaatg 540
tagatgtctt tagtatactt tgtatgttct taatattgga agataatttt gtgaatctgt 600
agattttatt ttttcagctc taccttaca aattcttttc tatgaataat agaggactta 660
cngcactctg ccatttggtt atgaaaggaa ggcngangat ttagaaag 708

```

<210> 563
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 563
 ccagatgctc atccactttc agactttcat ctcttctgcc atctgccaaa gtcaacagag 60
 ctttccggaa gtcaccagat gtttcgggaa taatgtcatc tccaagactc ttcttgtata 120
 ctgtataata ggcttgagag atatccttca tttgcctgct tgtcctggta gttaagattt 180
 caatcaaggc atcttcgttt gttcccgcgc ccttcatgga tttcttttagc tgctttgcat 240
 caaagactgc tgggtggagtc actagggcca ccatgagatg ctcaaagtgg 290

<210> 564
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 564
 accaccagat acttaaagct tcaaaaagac tgcccctacc accacaggag gaccagccta 60
 accatacgct ccaaaagatg gctgtgatag atcttgtgaa gcaattactg agcagatcaa 120
 gatctttggg aaggaacact aaagatgttt tgaatgaatt atagtccact ggcatttttag 180
 tgtatttttt tttcttttta gaaacacaca tttctaaaaa tgtcatgtta cattcctgca 240
 tgtccctttt gatagcatta gtggatccat tggatttctt ttttcttttt gtgagacagc 300
 ttttagtctt acctgaattt atgtgtgttt ttccgacagt ggttaataat tatattggtg 360
 atgtagcagc aattgtgttg gcagggtttt catatattat tagtaattaa cactaactgt 420
 tggactgact tgtgtcgata gcgctcacgc aagcatggtt aacgtcccta aaaccgcgcg 480
 gactttctgt aagaagtgtg gcaagcacca accccataaa gtgacacagt 530

<210> 565
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(450)
 <223> n = A,T,C or G

<400> 565
 ctgcttacgg aagcgctgnn tgactaggat gtgatttatt aacgaccaac ttctgttatt 60
 gtgtgttaag tttttcatct gtgcatcaaa tcacaaaaag aataaataga gctttttcct 120
 ttatcagtcc cttgggcaca gcaggctcctg aacaccctgc tctacaatgt tgcataaaga 180
 gttcaaacia caaaataaaa aatattaaga ggaaatcccc atcctgtgac ttgagtcctt 240
 taagtctaca ggggctggtg acctcttttt gctaataagg aaatcacatt actacaaaat 300
 ggggagaaaa ctgtttgctt gtggtagaca cctgcacgca taggattgaa gacagtacag 360
 gctgctgtac agagaagcgc ctctcacatc tgaactgcat actgagcggg caagtcggtt 420
 gtaagttcag taaaaccctc tgatgatgcc 450

<210> 566
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 566

```

acttgagctg tgagggtcatc ggaatcccga cacctgtcct catctggaac aaggtaaaaa 60
ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
ttcagacccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcctc 180
taagtaagga agatgctgga gaatatgagt gccatgcatc caattcccaa ggacaggctt 240
cagcatcagc aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaaagggtg 300
aagggtgccga gctataaacc tccagaatat tattagtctg catgggttaa agtagtcatg 360
gataactaca ttacctgttc ttgcctaata agtttctttt aatccaatcc actaacactt 420
tagttatatt cactgggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480
tctacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
atacttttta tcacaaaaaa aaa 563

```

```

<210> 567
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A,T,C or G

```

```

<400> 567
ccagtgagca aattgaaaac caactgaaag caaatccaaa tgaggaagat ttttaataaag 60
gaataccctt ctccatagca ggtgcaatgc tgactgctca aggcgtgcgt gcgcgcgcac 120
acacacacac acacacacac atacatactc tcacacacnc atctttccaa tttaaactgca 180
ggtagaatga gatttttgtgt tattcaaaaa atttgtaagt gatcaaaanc actgctatgg 240
aatgcctgtt tatctgcctt tgntctggtt aaaatctcat aaaaatacat tcaacaggaa 300
aacatanatt gtatgtgtat aaatatatat gtatatatat atattatata cacatgcaca 360
caaatacttt tgttttttga agcataagat agttacataa atactcctat aattgctaaa 420
gttt 424

```

```

<210> 568
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 568
actggctcac tcagagagga cgtccttcaa ctatgccatg aaggaggctg ctgcagcggc 60
tttgaagaag aaaggatggg aggtggtgga gtcggacctc tatgccatga acttcaatcc 120
catcatttcc agaaaggaca tcacaggtaa actgaaggac cctgcgaact ttcagtatcc 180
tgccgagtct gttctggcct ataaagaagg ccatctgagc ccagatattg tgggttganc 240
aaaagaaagc ttggaagccn caagaacctt gtgatattcc agttccccct gcantggggtt 300
tgggaagtcc ctgccntttt gaaagctggt ttgaagcgaa tgttcatagg aaagtttgct 360
taccacttac cctgcccatt gtangacaaa ag 392

```

```

<210> 569
<211> 559
<212> DNA
<213> Homo sapiens

```

<400> 569

```

aaagagattt attaaatcat cttatcacaa agatggaaac atatacaaac tagaaacatg 60
caaccatcat cttccacagt caagtcacaa tgtcaaatat ttttcttgcc tctgcagatg 120
aaaagttcag atcttatacc caactactta ctcaccccgga atattttaagt cagtcttcct 180
gaaagtactc agggtagcaa gtaacaaaat gcaaacgatt atataaagaa agtgcagtta 240
aaaaggaaac tatgtggcaa gtaccctctt tcccttccca cccccaatt aaaggcaaac 300
aatggcactt tgctcttgct taacctagat tgtcttcaaa aactattaaa atgtaaaaga 360
cttaacaaaa aaacaaaaag acgtttaaca gatgtcaaaa agctccttag tgtttgaaaa 420
taaagtctta aacaaaagac aacatatttt atatcaaaca agtttgaaga gccctgaatt 480
gcagcattct gtaacataaa caaacaaaaa gctgggtatag gatttattgg caaaggcaga 540
atttcttcaa gcagggtaa 559

```

<210> 570

<211> 368

<212> DNA

<213> Homo sapiens

<400> 570

```

agccgccgct ggatgctaag tccgatgtca ccaaccagct tgtagatttt cagtggaaac 60
tgggtatggc tgtgagctca gacacttgca gatctcttaa gtatccttac gttgcagtga 120
tgctaaaagt ggcagatcat tcaggccaag taaagaccaa gtgctttgaa atgacgattc 180
cacagtttca gaatttctac agacagttca aggaaattgc tgcagttatt gaaacgggtg 240
gaagacggat tctttggttg ataaattgct atcattctaa agtcatggac ttcactttcg 300
gcaacaaaac taaataagga tggaacattt attgaatgaa aaatgcactt ttgtttttcc 360
attttttt 368

```

<210> 571

<211> 261

<212> DNA

<213> Homo sapiens

<400> 571

```

acacgattgc tgcttccgct atatttgtga tataggaatt aagaggatac acacgtttgt 60
ttcttcgtgc ctgttttatg tgcacacatt aggcatlgag acttcaagct tttctttttt 120
tgtccacgta tctttgggtc tttgataaag aaaagaatcc ctgttcattg taagcacttt 180
tacggggctg gtggggaggg gtgctctgct ggtcttcaat taccaagaat tctccaaaac 240
aattttctgc aggatgattg t 261

```

<210> 572

<211> 488

<212> DNA

<213> Homo sapiens

<400> 572

```

ctctcagctc tcggcgcacg gccagcttc cttcaaaatg tctactgttc acgaaatcct 60
gtgcaagctc agcttggagg gtgatcactc tacaccccca agtgcatatg ggtctgtcaa 120
agcctatact aactttgatg ctgagcggga tgctttgaac attgaaacag ccatcaagac 180
caaaggtgtg gatgaggtca ccattgtcaa cattttgacc aaccgcagca atgcacagag 240
acaggatatt gccttcgcct accagagaag gaccaaaaag gaacttgcac cagcactgaa 300
gtcagcctta tctggccacc tggagacggg gattttgggc ctattgaaga cacctgctca 360
gtatgacgct tctgagctaa aagcttccat gaaggggctg ggaaccgacg aggactctct 420
cattgagatc atctgctcca gaaccaacca ggagctgcag gaaattaaca gagtctacaa 480
ggaaatgt 488

```

<210> 573
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(619)
 <223> n = A,T,C or G

<400> 573
 actttactga aagaacacta ntgttctttc ctttccgttg tgaaaaaagt tgtttctgag 60
 gaattgaaac cccagaagat aactacaaca aaaacatggt aatttttttt taaaaatgat 120
 gattcaaagg cagatttgaa gggaagtaat atttaggtgg cagaagaagg caaatgcagc 180
 ctctgaaggg aactgttcta attattacct aaaaaataaa gttacacaac tatattcaag 240
 gacatgagat aaagcactgc ttgaaaacca gaatgactga acagttagggt gaaaaggaac 300
 agctgaaata ggaaggggaa atggactgaa gaataatttg aatcgggaca gtgatccatc 360
 agtcctagat gcttctggta tgtaaataac ttgaatcaca ttgtttcctt tcttctgaaa 420
 tctcaaagga gaattctcac agcactacat taagggttgc attttgtagt gattcaaaat 480
 ttcaatccag tagccatcag gatcttgaat aaatgccagg cctttcattt taccatcatc 540
 aggtttcttc acaaatttga ctccagtctt caaccttttc aagcctgatc atcaggaaca 600
 caattccata tgaccgatc 619

<210> 574
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 574
 acatccaccc cactatattct tcacataaccg aatcaggatt gaaatgtcaa aagatgcact 60
 tcctgagaag gcctgtcagt tggacagtcg ctattggaga ataacaaatg ctaaggggtga 120
 cgtggaagaa gttcaaggac ctggagtagt tgggtgaattt ccaatcatca gccaggtcgc 180
 ggtatatgaa tacacaagct gt 202

<210> 575
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 575
 ccacagttgt atcatatagc atctctaaca tttcatctag gattatctag tatagatctt 60
 actatatttg ggactatggt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
 gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
 ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcct tcctgttctg 240
 atattactat tctttttttac attgtgctaa ggaggacaaa agatgagaga tgaaaataaa 300
 gctttgcctt t 311

<210> 576
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(134)
 <223> n = A,T,C or G

<400> 576
 ttttttgcac caaaaagctt tatttccatt tggccaagc cttgttagga tagttaaaaa 60
 agctgcctat tggctggagg ganaggctta ggcaaaancc ctattacttt gcaagggggc 120
 cttcaaaagt cgct 134

<210> 577
 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 577
 ctgatcagtg ggccccaag gaggggctgt aaaatggagg ccattgtgtg agcctatcag 60
 agttgctgca aacctgaccc ctgctcagta aagcacttgc aaccgtctgt tatgctgtga 120
 cacatggccc ctccccctgc caggagcttt ggacctaata caagcatccc ttgcccaga 180
 aagaagatgg gggaggaggc agtaataaaa agattgaagt attttgctgg aataagttca 240
 aattcttctg aactcaaaact gaggaatttc acctgtaaac ctgagtcgta cagaaagctg 300
 cctggatatat ccaaaagctt tttattcctc ctgctcatat tgtgattctg cctttgggga 360
 cttttcttaa accttcagtt atgatttttt tttcatacac ttattggaac tctgcttgat 420
 ttttgccctct tccagtcctc ctgacacttt aattaccaac ctgttaccta ctttgacttt 480
 ttgcattt 488

<210> 578
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 578
 accatgcatt aagagcttcc tgattgagat tcagtgcata agccgtgtct attccatcta 60
 cgtccacacc gtctgtgacc cactctttga agctgttggg aaaatattca gcaatgtccg 120
 catcaacttg cagaaagaaa tataaatgac atttcaagga tagaagtata cctgattttt 180
 ttccttttaa ttttcctggg gccaatattca agttccaagt tgctaataca gcaacaattt 240
 atgaattgaa ttatcttggg tgaaaataaa aagatcactt tctcagtttt cataagtatt 300
 atgtctcttc tgagctatatt catctatatt tggcagtcct aattttttaa acccatttaa 360
 atttttttcc ttaccttttt atttgcatgt ggatcaacca tcgctttatt ggctgagata 420
 tgaacatatt gttgaaaggt aatttgagag aaatatgaag aactgaggaa aaaaaa 476

<210> 579
 <211> 246
 <212> DNA
 <213> Homo sapiens

<400> 579
 ctggtgctca ctgagatggg aggttttccct attttcctgc tacatctgca caagctacat 60
 ctagaatgaa gccaccaatt tcaatgtgac caggcaatgg cagccagcac tgccttacac 120
 tggtttgatt ctgattccct aattctggcc actgcaggtg atgagtaagg gtgggggatca 180
 gggaggaagt ccagaagcca gtctttgtct ccttttctg cttatatatta agtgcctatt 240
 tacatg 246

<210> 580
 <211> 615

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(615)
 <223> n = A,T,C or G

<400> 580
 gtcttcacag taataactaa tgggtggatcc taaggtgaaa ttatttcctt caaaatagnc 60
 atgaactgna ttcccaggag ggncacagtc cctacttttg canatgggaa agggaggtgc 120
 ccagggtgtg tcctctagac actggctccg attgctgccc ttgaggatgt agtggtcatt 180
 gcacataaac gtgattttgt cacttacatt cacaggccct gaagaactga actctccatt 240
 caccagcaca ggatcaggac agtggcccaa gcggcactca gtagtgggtg tatcccactc 300
 cttagaggca ttgcaaaaaa gggctcttct tcctaccagg tggtagccct tgatacaaac 360
 gtaagtcccc agaattctgtc cttccacctc ctttgcgaca aatatgctat tgtccactgg 420
 aggaagctct ggacagtgtc catctgaagc agaaactcgc cacgcaacca taagacagca 480
 cgcacaccaa aaaaacatct ggtgatcaaa gtcctctccc caggctggaa ttcacccagc 540
 tcagacacct tacctgtctc tgtccctcca gagttagggc ttcccancaa ggaactgggc 600
 ttaactgact tccaa 615

<210> 581
 <211> 576
 <212> DNA
 <213> Homo sapiens

<400> 581
 actcttggtg agttctgtag agccttctga tgtctctaaa gcactaccga ttctttggag 60
 ttgtcacatc agataagaca tatctctaat tccatccata aatccagttc tactatggct 120
 gagttctggt caaagaaaga aagtttagaa gctgagacac aaagggttgg gagctgatga 180
 aactcacaaa tgatggtagg aagaagctct cgacaatacc cgttggcaag gagtctgcct 240
 ccatgctgca gtgttcgagt ggattgtagg tgcaagatgg aaaggattgt aggtgcaagc 300
 tgtccagaga aaagagtcct tgttccagcc ctattctgcc actcctgaca gggtgacctt 360
 gggatatttg aatattcctt tgggcctctg cttctctcac ctaaaaaaag agaattagat 420
 tatattggtg gttctcagca agagaaggag tatgtgtcca atgctgcctt cccatgaatc 480
 tgtctcccag ttatgaatca gtgggcagga taaactgaaa actcccattt acgtgtctga 540
 atcgagtgtg acaaaatttt agtccaaata acaagt 576

<210> 582
 <211> 939
 <212> DNA
 <213> Homo sapiens

<400> 582
 atgagcatcg gcctcctgtg ctgtgcagcc ttgtctctcc tgtgggcagg tccagtgaat 60
 gctgggtgtc ctcagacccc aaaattccag gtcctgaaga caggacagag catgacactg 120
 cagtgtgccc aggatatgaa ccatgaatac atgtcctggt atcgacaaga cccaggcatg 180
 gggctgaggc tgattcatta ctcagttggt gctgggtatca ctgaccaagg agaagtcccc 240
 aatggctaca atgtctccag atcaaccaca gaggatttcc cgctcaggct gctgtcggct 300
 gctccctccc agacatctgt gtacttctgt gccagcagtt actcagtcgg ggagggcggg 360
 gattcacccc tccacttttg gaatgggacc aggctcactg tgacagagga cctgaacaag 420

```

gtgttccac ccgaggtcgc tgtgtttgag ccatcagaag cagagatctc ccacacccaa 480
aaggccacac tgggtgtgct ggccacaggc ttcttccctg accacgtgga gctgagctgg 540
tgggtgaatg ggaaggaggt gcacagtggg gtcagcacgg acccgagcc cctcaaggag 600
cagcccgccc tcaatgactc cagatactgc ctgagcagcc gcctgagggg ctcgccacc 660
ttctggcaga acccccgcaa ccacttccgc tgtcaagtcc agttctacgg gctctcggag 720
aatgacgagt ggaccagga tagggccaaa cccgtcacc agatcgtcag cgccgaggcc 780
tggggtagag cagactgtgg ctttacctcg gtgtcctacc agcaaggggt cctgtctgcc 840
accatcctct atgagatcct gctagggag gccaccctgt atgctgtgct ggtcagcgcc 900
cttgtgttga tggccatggt caagagaaag gatttctga 939

```

<210> 583
 <211> 828
 <212> DNA
 <213> Homo sapiens

```

<400> 583
atgaactatt ctccaggctt agtatctctg atactcttac tgcttgggaag aaccggtgga 60
aattcagtga cccagatgga agggccagtg actctctcag aagaggcctt cctgactata 120
aactgcacgt acacagccac aggataccct tcccttttct ggtatgtcca atactcctgga 180
gaaggtctac agctcctcct gaaagccacg aaggctgatg acaagggaag caacaaagg 240
tttgaagcca cataccgtaa agaaaccact tctttccact tggagaaagg ctgagttcaa 300
gtgtcagact cagcgggtgta cttctgtgct ccgaaccctt ctcttcaggg cggatctgaa 360
aagctggtct ttggaaaggg aacgaaactg acagtaaacc catatatcca gaaccctgac 420
cctgccgtgt accagctgag agactctaaa tccagtgaac agtctgtctg cctattcacc 480
gattttgatt ctcaaacaaa tgtgtcacia agtaaggatt ctgatgtgta tatcacagac 540
aaaactgtgc tagacatgag gtctatggac ttcaagagca acagtgtgtg ggccctggagc 600
aacaatctg actttgcatg tgcaaacgcc ttcaacaaca gcattattcc agaagacacc 660
ttcttcccca gccagaaaag ttctgtgatg gtcaagctgg tcgagaaaag ctttgaaaca 720
gatacgaacc taaactttca aaacctgtca gtgattgggt tccgaatcct cctcctgaaa 780
gtggccgggt ttaatctgct catgacgctg cggctgtggt ccagctga 828

```

<210> 584
 <211> 275
 <212> PRT
 <213> Homo sapiens

```

<400> 584
Met Asn Tyr Ser Pro Gly Leu Val Ser Leu Ile Leu Leu Leu Leu Gly
          5              10              15

Arg Thr Arg Gly Asn Ser Val Thr Gln Met Glu Gly Pro Val Thr Leu
          20              25              30

Ser Glu Glu Ala Phe Leu Thr Ile Asn Cys Thr Tyr Thr Ala Thr Gly
          35              40              45

Tyr Pro Ser Leu Phe Trp Tyr Val Gln Tyr Pro Gly Glu Gly Leu Gln
          50              55              60

Leu Leu Leu Lys Ala Thr Lys Ala Asp Asp Lys Gly Ser Asn Lys Gly
          65              70              75              80

Phe Glu Ala Thr Tyr Arg Lys Glu Thr Thr Ser Phe His Leu Glu Lys
          85              90              95

```

Gly Ser Val Gln Val Ser Asp Ser Ala Val Tyr Phe Cys Ala Pro Asn
 100 105 110
 Pro Ser Leu Gln Gly Gly Ser Glu Lys Leu Val Phe Gly Lys Gly Thr
 115 120 125
 Lys Leu Thr Val Asn Pro Tyr Ile Gln Asn Pro Asp Pro Ala Val Tyr
 130 135 140
 Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr
 145 150 155 160
 Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val
 165 170 175
 Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys
 180 185 190
 Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala
 195 200 205
 Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser
 210 215 220
 Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr
 225 230 235 240
 Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe Arg Ile
 245 250 255
 Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu
 260 265 270
 Trp Ser Ser
 275

<210> 585
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
 5 10 15
 Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
 20 25 30
 Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
 35 40 45
 Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu

50					55					60					
Ile	His	Tyr	Ser	Val	Gly	Ala	Gly	Ile	Thr	Asp	Gln	Gly	Glu	Val	Pro
65					70					75					80
Asn	Gly	Tyr	Asn	Val	Ser	Arg	Ser	Thr	Thr	Glu	Asp	Phe	Pro	Leu	Arg
				85					90					95	
Leu	Leu	Ser	Ala	Ala	Pro	Ser	Gln	Thr	Ser	Val	Tyr	Phe	Cys	Ala	Ser
			100					105					110		
Ser	Tyr	Ser	Val	Gly	Glu	Gly	Gly	Asp	Ser	Pro	Leu	His	Phe	Gly	Asn
		115					120					125			
Gly	Thr	Arg	Leu	Thr	Val	Thr	Glu	Asp	Leu	Asn	Lys	Val	Phe	Pro	Pro
	130					135					140				
Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln
145					150					155					160
Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Phe	Pro	Asp	His	Val
			165						170					175	
Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser
			180					185					190		
Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg
		195					200					205			
Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn
	210					215					220				
Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu
225					230					235					240
Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val
			245						250					255	
Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala	Asp	Cys	Gly	Phe	Thr	Ser	Val	Ser
			260					265					270		
Tyr	Gln	Gln	Gly	Val	Leu	Ser	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu
		275					280					285			
Gly	Lys	Ala	Thr	Leu	Tyr	Ala	Val	Leu	Val	Ser	Ala	Leu	Val	Leu	Met
	290					295					300				
Ala	Met	Val	Lys	Arg	Lys	Asp	Phe								
305					310										

<211> 97
 <212> PRT
 <213> Homo sapiens

<400> 586
 Glu Val Glu Val Ser Arg Asp His Ala Ser Leu Gly Asp Ser Glu Thr
 5 10 15
 Leu Ser Gln Thr Glu Leu Arg Lys Lys Glu Arg Lys Lys Lys Arg Glu
 20 25 30
 Arg Lys Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile
 35 40 45
 Phe Trp Ile Leu Leu Phe Ser His His Trp Ile Gln Glu Ser Leu Leu
 50 55 60
 Cys Pro Pro Ser Pro Lys Glu Val Thr Cys Arg Glu Met Leu Thr Gly
 65 70 75 80
 Gly Cys Leu Pro Trp Ala Thr Arg Ser His Leu Gly Arg Arg Lys Cys
 85 90 95

Ser

<210> 587
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 587
 Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile Phe Trp
 1 5 10 15

<210> 588
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 588
 gaattcggca cgagggctgg aggctgagat gcaggagctc gccatccagc tgcacaagcg 60
 ctgcgaggag gtagaggcca cgcggggcca ggtgtgtcag gagcaggagc tgcgcgccgt 120
 ggtggagagc tgctgctgga gcaggaccgc gcccgcgagg acctccaggc ccggctgcgg 180
 gagacgtggg ccctggcccg ggatgctgcc ctcgctcctgg accagctgcg agcctgtcaa 240
 gctgagctgt catctcgagt gaggcaggac cagccccctg gtacagccac tctgggccta 300
 gccgtccccc cagctgactc caagggctgg caagcgtccc tgcaggccat gagcctcccc 360
 gagctctcgg gagccctgga ggaccgtgtc cgtgagatgg ggcaagcact gtgcttagtg 420
 acccagagcc tggagaagct gcaggtgctg aacgggaaga agtggcggga gacctagcct 480
 gcggggccgaa tctgacgttg ggtgattggt ccaccctgaa gctgtgtgcc 530

<210> 589
 <211> 349

<212> DNA
<213> Homo sapiens

<400> 589

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gaattcggca cgaggccagt tcagtctgca agcgccagct cctctcatgg ccggccttacc 60
caccgccttg ccaatgcccc ggggcaaacc tcataccacc acttccagaa cactgatcat 120
gacaaccaac aatcaggtag gtggtcctct ggcacccttc ccgctgggtg tccctgggaa 180
cagcatccga gctgtgatat gcactagagg agattgatgg tcctttgaat tagaagagta 240
actttttgag tatttggcca ttggtgtgtt gttctaggaa atcctctctt ttttgtgggtg 300
ttgaggtccc ccatgtatag tttcagcagc gaggacactg tggttcttg 349
```

<210> 590
<211> 509
<212> DNA
<213> Homo sapiens

<400> 590

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gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcatcccc ggcgaaacgtc 60
tgtgtaactt ggaggagggc agcccgggca gcggcaccta caccgcccac ggctacatct 120
tttcgtcgct tgccggctgt ctgatgaaga gcagcgagaa tggcgcgctt ccagtgggtg 180
ctgtagtgag agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgta 240
aggtctctag catcaattca cgctttgcca aagtacacat cctgtatgtg ggggtccatgc 300
ctcttaagaa ctcttttoga ggaactatcc gcaaggaaga tgtccgagca actgaaaaag 360
acaaggttga aatttataag agtttccgcc caggtgacat tgtcttggcc aaagtgatct 420
ccttaggtga tgcacagtcc aactacctgc taaccaccgc cgagaacgag ctgggagtg 480
tggtagccca cagtgagtca ggtatccag 509
```

<210> 591
<211> 510
<212> DNA
<213> Homo sapiens

<400> 591

```
gaattcggca cgagggtgat gttgtgtgag gatcccgggg ccgcccgcgtc gctcggggccc 60
cgccatggcc gtcaccatca cgctcaaaac gctgcagcag cagaccttca agatccgcat 120
ggagcctgac gagacggtga aggtgctaaa ggagaagata gaagctgaga agggtcgtga 180
tgccttcccc gtggctggac agaaactcat ctatgccggc aagatcttga gtgacgatgt 240
ccctatcagg gactatcgca tcgatgagaa gaactttgtg gtcgtcatgg tgaccaagac 300
caaagccggc cagggtagct cagcaccccc agaggcctca cccacagctg ccccagagtc 360
ctctacatcc ttcccgcctg ccccccacctc aggcattgtc catcccccac ctgccgccag 420
agaggacaag agcccatcag aggaatccgc cccacgacg tccccagagt ctgtgtcagg 480
ctcttggtcc ctcttcaggt aacaaccggg 510
```

<210> 592
<211> 432
<212> DNA
<213> Homo sapiens

<400> 592

```
gacatgtaat tcttatttat ttttcaccct caacaaggaa gaaaggtctc tccctcaatt 60
ctgctcttcc aatacttgag gataggcacc cctaaccctc ctctctccag ggaggcctca 120
gcatcagtgt ctgtggacgt agtctctgaa gagtgcttca gctgatgggg aaggagaaac 180
tcaagacaga gatcctcta gggatggcgt cactttcctg ccaactttct cgttgcctct 240
ccttgaaagc agaagaagtg ccagccctca gcttccgtca gatcttgggg tcctagggcc 300
```


ttgtacaagt ccatggccct ctggttccag tccaggacgg ccaggcggaa ttgggagcag 360
 cccttatcca aggccacctc agccaccttt ttgattatth ttggaaccaat cccttgaccc 420
 cgatattccg gc 432

<210> 593
 <211> 614
 <212> DNA
 <213> Homo sapiens

<400> 593
 gaattcggca cgaggcgcag agttgtcgct actggagaag tccctgggac tgagtaaggg 60
 gaataaatac agtgctcagg ggcagcgaca gattccagtt cttcagacaa acaatgggtcc 120
 aagtctaaca ggattgacta ctatagcagc tcatctagtc aagcaagcca acaaagaata 180
 tttgctgggg agtactgcag aagaaaaagc aatcgttcag cagtgggttag aatacagggg 240
 cactcaagta gatgggcact ccagtaaaaa tgacatccac acactggtga aggatcttaa 300
 ttcataatctt gaagataaag tctaccttac aggggtataac tttacattag cagatatact 360
 attgtactat ggacttcata gctttatagt tgacctgaca gttcaagaaa aggagaaata 420
 tcttaaatgta tctcgctggg tttgtcacat tcagcattat ccaggcatca ggcaacatct 480
 gtctagtgtt ggtcttcata aagaacagac tatatactaa ttcccctaga aagctgtcca 540
 tgccatacag aagatctatt aaaaaatggt ttaaaatgga aaatgtactc ttagaaccac 600
 aggacttaat ggta 614

<210> 594
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 594
 gaattcggca cgagggggcac aacagagccg ctcccctctc ctgcgcccgc caccgggacg 60
 gagagcgccc gccggtgcat ttccggcgac acctcgcagt cattcctgcg gcttgccgcg 120
 ccttgtagac agccgggggccc ttctgtgagaa cgggtgcaggc ctggggtagt ctctgtctg 180
 gacagagaag agaaaaatgc aggacactgg ctcaagagtg cctttgcatt ggtttggctt 240
 tggctaccca gcactgggtg ctctgtggtg gaatatttgc tattgaaaag caagcaagcg 300
 tgccgtccct ggctgcaggg ctgctctttt ggaagt 336

<210> 595
 <211> 487
 <212> DNA
 <213> Homo sapiens

<400> 595
 gaattcggca cgagggtgact gtgggaaact cggaaacaag ctacatctt cctgtgggaa 60
 accttctagc aacaggatga gtctgcagtg gactgcagtt gccaccttcc tctatgcgga 120
 ggtctttgtt gtgttgcttc tctgcattcc cttcatttct cctaaaagat ggcagaagat 180
 tttcaagtcc cggctggttg agttgttagt gtccatggc aacaccttct ttgtggttct 240
 cattgtcatc cttgtgctgt tggatcatga tgccgtgcgc gaaattcgga agtatgatga 300
 tgtgacggaa aaggtgaacc tccagaacaa tcccggggcc atggagcact tccacatgaa 360
 gcttttccgt gccagagga atctctacat tgctggcttt tcttgcctgc tgccttct 420
 gcttagacgc ctggtgactc tcatttcgca gcaggccacg ctgctggcct ccaatgaagc 480
 ctttaaa 487

<210> 596
 <211> 418
 <212> DNA

<213> Homo sapiens

<400> 596

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gaattcggca cgaggccgtg acctgctagc tgagcagcgc ttcccggggc gcgtgctgcc 60
ctcggacttg gacctgctgt tgcacatgaa caacgcgcgc tacctgcgcg aggccgactt 120
tgcgcgcgtc gcgcacctga cccgctgcgg ggtgctcggg gcgctgaggg agttgcgggc 180
gcacacgggtg ctggcggcct cgtgcgcgcg ccaccgccgc tcgctgcgcc tgctggagcc 240
cttcgaggtg cgcacccgcc tgctgggctg ggacgaccgc gcgttctacc tggaggcgcg 300
ctttgtcagc ctgcgggacg gtttcgtgtg cgcgctgctg cgcttccggc agcacctgct 360
gggcacctca cccgagcgcg tcgtgcagca cctgtgccaa cgcaagggtg aaccccct 418
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<210> 597

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 205

<223> n = A,T,C or G

<400> 597

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gaattcggca cgaggctggc tcccacccgt gagttggctc aacagattga ggaagagacc 60
atcaagtttg ggaaaccgct aggtatccgc actgtggctg tcattggtgg catctccaga 120
gaagaccagg gcttcaggct gcgcattggg tgtgagattg tgattgctcc cctgggcgtt 180
tgattgatgt gctggaaaac ccgtnccctg tgcttgacct gctgtacct tgtggttctg 240
gatgaggcag ataggatgat tgacatgggc tttgagccag atgtccagaa gatcctggag 300
cacatgcctt gtcagcaacc agaagcccaa acacggatga agcttgagga cccctgagaa 360
aaatgcttgg ccaacttttg agtcgggaaa acattaagta cccgcccaaa cagtcatt 418
```

<210> 598

<211> 266

<212> DNA

<213> Homo sapiens

<400> 598

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gaattcggca cgagggcttc tcaactgagt cctactttta tgcctgcct gtggtgagca 60
caaagtgtga gcacatcaat ccccatcttg tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgccc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttcctattca accttt 266
```

<210> 599

<211> 235

<212> DNA

<213> Homo sapiens

<400> 599

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gaattcggca cgagggctcc tgcagccttt tcgctgggac tgcgcgacac cgccccccga 60
ccgggtgccc gctgtgtgcc aggccgggtg ctgggcacgg tcccgcgagt gccctataag 120
gactgccagg caataatgaa ggttctttta ctgaaggatg cgaaggaaga tgactgtggc 180
caggatccgt atatcaggga attaggatta tatggacttg aagccacttt gatcc 235
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<210> 600

<211> 386
 <212> DNA
 <213> Homo sapiens

<400> 600
 gaattcggca cgagggttcc tcgcgggccc cggggtgctg gtcaccgggg caggcaaagg 60
 tatagggcgc ggcacggtec aggcgctgca cgcgacgggc gcgcgggtgg tggctgtgag 120
 ccggactcag gcggatcttg acagccttgt ccgcgagtgc ccggggatag aaccctgtgt 180
 cgtggacctg ggtgactggg aggccaccga gcggggcgctt gggcagcgtg ggccccgtgg 240
 acctgctggt gaacaacgcc cgctgtcgcc ctgctgcagc ccttcctgga ggtcaccaag 300
 gaggcctttg acagatcctt tgagggtgaac ctgcgtgcgg catccagtgt cacagattgt 360
 ggcaggggct taatacccg ggtcc 386

<210> 601
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 601
 gaattcggca cgaggggctg ctggctggct aagtcctcc cgctcccggc tctcgctca 60
 ctaggagcgg ctctcggtgc agcgggacag ggcgaagcgg cctgcgccc cggagcgcgc 120
 gacactgccc ggaagggacc gccacccttg cccctcagc tgcccactcg tgatttccag 180
 cggcctccgc gcgcgcacga tgccctcggc caccagccac agcgggagcg gcagcaagtc 240
 gtccggaccg ccaccgcccgt cgggttccct cgggagttag gcggccgcgg gagccggggc 300
 cgccgcgccc gcttctagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg 360
 aagcagattc tcgggggtgat cgacaagaaa cttcggaacc tggaga 406

<210> 602
 <211> 365
 <212> DNA
 <213> Homo sapiens

<400> 602
 gaattcggca cgaggctcgc ctcaactagga gcggctctcg gtgcagcggg acagggcgaa 60
 gcggcctgcg cccacggagc gcgcgacact gcccggaagg gaccgccacc cttgccccct 120
 cagctgccc a ctcgtgattt ccagcggcct ccgcgcgcgc acgatgccct cggccaccag 180
 ccacagcggg agcggcagca agtcgtccgg accgccaccg ccgtcgggtt cctccgggag 240
 tgaggcggcc gcgggagccg gggccgcgcg ccggcttcta gcaccccgca accggcaccg 300
 gcgctgtcca gaccgaggcc atgaagcaga ttctcgggggt gatcgacaag aaacttcgga 360
 acctg 365

<210> 603
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 603
 gaattcggca cgaggctttg gccactcaga gccccggggc cgcggtcgtc gtacgcctga 60
 aggcgggtcg tgccggcggc cgctctagtc tccgcctccg cttaggcgg tcttcggggg 120
 cttctcaatg gtttcccggg ggcctctcaa tggttttccc ggcggccctt gcgccgacgc 180
 caggagactt ccggagcttg gtgacgtcac agagcgagct tttctaccca aatacgcggc 240
 gggggaatag gctcgagggc ggggagcagt gacaattgct aggcggagac agtgcaggga 300
 agagagacct tataaaggat caggactggc gggagggtatt taactgaaag gaatatctgc 360
 ttcactgttg caacca 376

<210> 604
 <211> 385
 <212> DNA
 <213> Homo sapiens

<400> 604
 gaattcggca cgaggcttgg gtccgtcgct gcttcgggtgt ccctgtcggg cttcccagca 60
 gcggcctagc gggaaaagta aaagatgtct gaatatattc gggtaaccga agatgagaac 120
 gatgagccca ttgaaatacc atcggaagac gatgggacgg tgctgtcttc cacggttaca 180
 gccagtttc caggggctgt tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240
 ggtgtccggc tggtagaagg aattctgcat gcccagatg ctggctgggg aaatctggtg 300
 tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360
 gcagtgaag tgaaaagagc agtcc 385

<210> 605
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 375
 <223> n = A,T,C or G

<400> 605
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 cgccgccggc ctagttacca tcacaccccg ggaggagccg cagctgccgc agccggcccc 120
 agtcaccatc accgcaacca tgagcagcga ggccgagacc cagcagccgc ccgccgcccc 180
 ccccgccgcc cccgccctca gcgccgccga caccaagccc ggcactacgg gcagcggcgc 240
 aaggagcggg ggcccggggc gcctcacatt cggcgggggc ttgccggcgg ggacaaagaa 300
 agggcattcg caacgaagg ttttgggaaa caagtaaaat gggttcaatt gtaagggaac 360
 cggatttttg ttttnattca accagggaat ttgac 395

<210> 606
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 606
 gaattcggca cgagggcagg ggtggtcctg gctggcattg cctgagccgg cagtgatgaa 60
 gtggggagct tgcccttgac aggtgggggc tggctggggc cttaatgtga aaagacagtg 120
 gcaggcagct ggagtagagc gagcccagca gccctaaaag gctgccttca tggccatcta 180
 gcccagttc agggcagcat ccatagccca caagccagcg tgggtggggc gggggtggtc 240
 ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

<210> 607
 <211> 615
 <212> DNA
 <213> Homo sapiens

<400> 607
 gaattcggca cgaggccggg cggcctgggc aacctgcgct gaagatgccg ggaaaactcc 60
 gtagtgacgc tggtttgtaa tcagacaccg caatgaaaaa aggggagaca ctgcgaaagc 120

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aaaccgagga gaaagagaaa aaagagaagc caaaatctga taagactgaa gagatagcag 180
aagaggaaga aactgttttc cccaaagcta aacaagttaa aaagaaagca gagccttctg 240
aagttgacat gaattctcct aaatccaaaa aggcaaaaaa gaaagaggag ccatctcaaa 300
atgacatttc tcctaaaacc aaaagtttga gaaagaaaaa ggagcccatt gaaaagaaag 360
tggtttcttc taaaaccaaa aaagtgacaa aaaatgagga gccttctgag gaagaaatag 420
atgctcctaa gcccaagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480
aaagccccaa actgaagaat ggatttcctc atcctgaacc ggactgtaac cccagtgaag 540
ctgccagtga agaaagtaac agtgagatag agcaggaaat cctgtggaac aaaaagaagg 600
cgctttctct attttt                                     615

```

```

<210> 608
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 608
gaattcggca cgaggagaaa gggaaaaaag gcgtaaagac agacatgaag caagtggggt 60
tgcaaggaga ccagatccag attctgatga agatgaagat tatgagcgag agaggaggaa 120
aagaagtatg ggcggagctg ccattgcccc acccacttct ctggtagaga aagacaaaga 180
gttaccgccga gattttcctt atgaagaagg actcaagacc tcgatcacag tctttccaag 240
cagccctttc ttccccaggt gtaccgaagg aaccaagaac agacccgaga atcttccacc 300
cggaccctta gcaaac                                     316

```

```

<210> 609
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 267
<223> n = A,T,C or G

```

```

<400> 609
gaattcggca cgagggtgaa accaacttat tgggctcaat cccatttgggt cacaggatac 60
tgtacgtatc ttcctttcca gagatttgat atcaccaga caccgccagc atacataaac 120
gtgttaccag gtttgcccca gtacaccagc atatatacac ccttggccag cctttctcct 180
gaatatcagc taccaagatc agtaccagtg gtgccgtctt ttgtagccaa tgacagagca 240
gaaaaaaatg ctggctgcct attttgnggg gcattcattt tgaaatggct tgagaaatgg 300
ttggctgggt caccagaat tggccttctt gaaaaccaca agaatccctt tggaaggggg 360
cttctttttg gggaaaataa tcttggtaaa aag                                     393

```

```

<210> 610
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 610
gaattcggca cgaggcagca atgcggtaga tatgacgtaa acaaattata attaagctag 60
tggaactca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120
tttttcatga tgtctaactc tactgaattt attcaatgga gataacagaa agatgattat 180
atatgattaa attacttcca gtattagcag atgcttattt aaatacttgc ttgttctttc 240
tgcaattcca catagaatta aggcaatagt ttaaaagaaa atttaaaaag taacttttct 300
agcattttta tgtagacctg tgaattctaa cacatttgca gtgtagccat cctaatact 360

```

aaccagactt gaacaaaatc caacttgcaa aaacgatgca atataaatac caatcaccaa 420
 taataggtag tctcactttt aaaaacctgt gtct 454

<210> 611
 <211> 613
 <212> DNA
 <213> Homo sapiens

<400> 611
 gaattcggca cgaggtgctc tcttcgttgc ccagtttccg ctcagtgggc gcgtctccgc 60
 cccccaccca ccagtcccgc tgcattctcg gccgggctct aggcgccatg gctccccgcg 120
 ggaggaagcg taaggctgag gccgcggtgg tcgccgtagc cgagaagcga gagaagctgg 180
 cgaacggcgg ggaggggaatg gaggaggcga ccgttggtat cgagcattgc actagctgac 240
 gcgtctatgg gcgcaacgcc gcggccctga gccaggcgct gcgcctggag gccccagagc 300
 ttccagtaaa ggtgaacccg acgaagcccc ggagggggcag cttcgaggtg acgtgctgctgc 360
 gcccggacgg cagcagtgcg gagctctgga ctgggattaa gaagggggccc ccacgcaaac 420
 tcaaattccc tgagcctcaa gaggtggtgg aagagttgaa gaagtacctg tcgtagggag 480
 atttgggtag aagccctcat gctgagcttt gtgtccctgg tgatgttgga acattaatga 540
 tggaacatgg ccaaacttca gtcatgatcc tgaagccatg gtttcttccc tgccagaaat 600
 gaaggttcat tat 613

<210> 612
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 612
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 gcagcaacag cccaacacgc agcgcggggc cgccaaggag gccgcgggga agagcagcgg 120
 ccccacctcg ctgttcgcgg tgacgggtggc gccgcccggg gcgaggcagg gccagcagca 180
 ggcgggagggt aagaagaagg cggaaggcgg cggaggcggc ggtcgccccg gggctccggc 240
 ggcggggggac ggcaaaacag aacagaaagg cgagagataa aagagggggtg ttaaaagacc 300
 accacaagat cat 313

<210> 613
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 613
 gaattcggca cgaggcctgg ccggggagac gagttgcatg tggttggttca gctggcgata 60
 gcggcggggag cggagccggc ggggcctgtg cgaccgcctg ggtttgtgaa atggctgctg 120
 acatttctga atccagcggg gctgactgca aaggagaccc aaggaacagt gccaagttag 180
 atgccgatta cccacttcga gtcctttatt gtggagtctg ttcattacca acagagtact 240
 gtgaatatat gcctgatgtt gctaaatgta gacaatgggt agagaagaat tttccaaatg 300
 aatttgcaaa acttactgta gaaaattcac ccaacaaga agctggaatt agtgagggtc 360
 aaggaacacg aggggaagaa gaggagaaga aaaaacagaa gagaggtgga aggggtcaaa 420
 taaaacaaaa aaagaagacc gtaccacaaa aggttactat agccaaaatt cccagagcaa 480
 agaagaaata tgtgacaaga gtatgtggcc ttgcaacttt tgaaattgat cttaaagaag 540
 cacaaagatt ttttgct 557

<210> 614
 <211> 627
 <212> DNA

<213> Homo sapiens

<400> 614

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gaattcggca cgaggctcac taggagcggc tctcgggtgca gcgggacagg gcgaagcggc 60
ctgcgcccac ggagcgcgcg acactgcccg gaagggaccg ccacccttgc cccctcagct 120
gcccactcgt gatttccagc ggccctccgc cgcgcacgat gccctcggcc accagccaca 180
gcgggagcgg cagcaagtcg tccggaccgc caccgcccgc gggttcctcc gggagtgagg 240
cgcccgccgg agccggggcc gccgcgcgcg cttctcagca ccccgcaacc ggcaccggcg 300
ctgtccagac cgaggccatg aagcagattc tcgggggtgat cgacaagaaa cttcggaacc 360
tggagaagaa aaagggttaag cttgatgatt accaggaacg aatgaacaaa ggggaaaggc 420
ttaatcaaga tcagctggat gccgtttcta agtaccagga agtcacaaat aatttggagt 480
ttgcaaaaaga attacagagg agtttcatgg cactaagtca agatattcag aaaacaataa 540
agaagacagc acgtcgggag cagcttatga aaaaagaact gaacagaaac gtttaaaaac 600
ttgtacttga actacagtat tgtttgg 627

```

<210> 615

<211> 474

<212> DNA

<213> Homo sapiens

<400> 615

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gaattcggca cgagggcgag aacgaccccc ggaccgacca aagcccgcgc gccgctgcat 60
cccgcgtcca gcacctacgt cccgctgccg tcgccgccgc caccatgccc aagagaaagg 120
ctgaagggga tgctaaggga gataaagcaa aggtgaagga cgaaccacag agaagatccg 180
cgaggttgtc tgctaaacct gctcctccaa agccagagcc caagcctaaa aaggcccctg 240
caaagaaggg agagaaggta cccaaaggga aaaagggaag agctgatgct ggcaaggagg 300
ggaataaccc tgcagaaaat ggagatgcc aacacagacca ggcacagaaa gctgaagggtg 360
ctggagatgc caagtgaagt gtgtgcattt ttgataactg tgtacttctg gtgactgtac 420
agtttgaaat actatTTTTT atcaagtttt ataaaaatgc agaatttttg tttta 474

```

<210> 616

<211> 576

<212> DNA

<213> Homo sapiens

<400> 616

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gaattcggca cgagggggaat ctgtgaagct cactactgga ccaaacaacg ctggagctca 60
aagtagttct tcatgtggga cttctggcct tcagtttct gcacagacag ccttggcaga 120
acaacagcca aaaagcatga aaagcccagc ttctccagag cctggtttct gtgctactct 180
ttgccctatg gtagaaattc cacctaaaga tataatggca gaattggagt cagaggatat 240
cttgatccct gaagaatctg taattcagga ggaaattgca gaagaggtag agactagtat 300
ctgtgaatgc caggatgaaa atcataagac aatacctgaa ttttctgagg aggctgaaag 360
tctaaccaat tctcatgaag aaccccaa at agcacctcct gaagataact tggaaatcctg 420
tggttatgat aatgatgttt tagaaacttt gcctcatatt gaagttaaga tagaagggaa 480
gtcagaatca cccaggaag aaatgacagt tggtatcgat cagttagaag tctgtgactc 540
tcttattcct tccacttcat ctatgactca tgtcag 576

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<210> 617

<211> 514

<212> DNA

<213> Homo sapiens

<400> 617

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gaattcggca cgaggcagag aggtttgcc aagagcgcag gctgagaata tggagagact 60

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```

atgtggctcc cacagctaata ttggaccaaa aggacaagca gtttggtgcc aaggtgatgc 120
aggttctgaa tgctgatgcc attggtgtga agctgaactc aggcgattac aagacgattc 180
acctgtccag catccgacca ccgaggctgg agggggagaa caccaggat aagaacaaga 240
aactgcgtcc cctgtatgac attccttaca tggttgaggc ccgggaattt cttcgaaaaa 300
agcttattgg gaagaaggtc aatgtgacgg tggactacat tagaccagcc agcccagcca 360
cagagacagt gcctgccttt tcagagcgta cctgtgccac tgtcaccatt ggaggaataa 420
acattgctga ggctcttgtc agcaaaggtc tagccacagt gatcagatac cggcaggatg 480
atgaccagag atcatcacac tacgatgaac tgct 514

```

```

<210> 618
<211> 456
<212> DNA
<213> Homo sapiens

```

```

<400> 618
gaattcggca cgagggggcg ggcaggcggg caggccggca ggcgggtgcg cggagggctg 60
gtgccccgca gcaggtgggc ggggtgcggt tggcggcgcc ggctgggccc ggggctgccg 120
gctgcgctcg ggccgtgcgc ggcggccgtg cgggcacgcc atggacttca acatgaagaa 180
gctggcgctcg gacgcgggca tcttcttcac ccgggcggtg cagttcacgg aggagaaatt 240
tggccaggct gagaagactg agcttgatgc ccactttgaa aaccttctgg cccgggcaga 300
cagcaccaag aactggacag agaagatctt gaggcagaca gaggtgctgc tgcagcccaa 360
ccccagtgcc cgagtggagg agttcctgta tgagaagctg gacaggaagg tcccctcaag 420
ggtcaccaac ggggagctgc tggctcagta catggc 456

```

```

<210> 619
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<400> 619
gaattcggca cgaggcagaa gccctagct cctctgagcc tcatggggcc agaggaagca 60
gtagttcggg cggcaagaaa tgctacaagc tggagaatga gaagctgttc gaagagttcc 120
ttgaactttg taagatgcag acagcagacc accctgaggt ggtccattc ctctataacc 180
ggcagcaacg tgcccactct ctgttttttg cctcggcgga gttctgcaac atcctctcta 240
gggtcctgtc tcgggcccgg ac 262

```

```

<210> 620
<211> 205
<212> DNA
<213> Homo sapiens

```

```

<400> 620
gaattcggca cgaggattta tgggccactg cacatgcccg ctgcagccct gggatcagct 60
ggaagctgcc tgtcatctcc tgcccaatcc ccagaaaccc tgattcaggt ctgcaggctc 120
ctgcgggctc accaggctgc tggctccggt accatgtaaa cctaggaagg taaaggagca 180
ggcaacctcc tcgtggcctg tgtgt 205

```

```

<210> 621
<211> 483
<212> DNA
<213> Homo sapiens

```

```

<400> 621
gaattcggca cgaggcctgg ccgggaccgt gtgggcccgt aggatgagga cggctgggag 60

```

acgcgagggg accgcaaggc ccggaagccc ctggtggaga agaagcggcg cgcgcggatc 120
aacgagagcc tgcaggagct gcggctgctg ctggcgggcg ccgaggtgca ggccaagctg 180
gagaacgccg aagtgctgga gctgacgggtg cggcgggtcc aggggtgtgct gcggggccgg 240
gcgcgcgagc gcgagcagct gcaggcggaa gcgagcgaac gcttcgctgc cggctacatc 300
cagtgcattg acgaggtgca cacgttcgtg tccacgtgcc aggccatcga cgctaccgtt 360
ctgccgagct cctgaaccat ctgctcgagt ccatgccgct gcgtgagggc agcaacttca 420
ggatctgctg ggggacgccc tgcggggcca cctaaatccc ctggacggaa tggctggctg 480
cgg 483

<210> 622
<211> 562
<212> DNA
<213> Homo sapiens

<400> 622
gaattcggca cgagggcgct gcgggtagga gccgggttgc gggagacccc aggttcggtt 60
gggattccca gccagaacgg agcttaagcc gggcaggcga gcgaatgacg gagtagcgag 120
ctgcacggcg gcgtgctgct ctgttgagga cgctgtcccg cgcgctccca ggccgccccg 180
aggtctgggg tcttcgaagg ataatcggcg cccggggccg aacagcgggg gcacacgggg 240
cgctgccgaa gtgcaaggcc acggccagag ctcgagcccg acgcgctgtc tggagtctga 300
ggttgggcgc gtttgggggtc ggggtctgag gcttgggcgc tgcctgggccc gagcggagat 360
cgggggtttgc ctcccgctccc cgctcaggac cctgacgtgg ctgaagcggc cccgggagca 420
tgagcggcag cgcgtggacg tcaaggtggt gatgctgggc aaggagtacg tgggcaagac 480
tagcctggtg gagcgtacg tgcacgaccg ctttctggtg gggccttacc agaacaccat 540
cggggccgccc ttcgtggcca ag 562

<210> 623
<211> 645
<212> DNA
<213> Homo sapiens

<400> 623
gaattcggca cgaggctgag agagagcaca gcctggtggg ttctgggggtc tacggcctag 60
gggcccgggga agtttgcgcc gccgcgacca gtgctgcgat cccgagccgg gctccagccc 120
cgaggaccag gggtcgggcg ggccctgccta cggaaccccc cgggccagca gcagtcgtct 180
cgcgtccctc tgcttggaag agtggtttaag cttctaaaat gtcattctatc aagcacctgg 240
tttatgcagt tattcgtttc ttacgggaac aaagtcagat ggacacttac acctcggtatg 300
aacaagaaaag tttggaagtt gcaattcagt gcttgagagc agttttttaag atcagcccag 360
aagatacaca cctagcagtt tcacagcctt tgacagaaat gtttaccagt tccttctgta 420
agaatgacgt tctgcccctt tcaaactcag tgctgaaga tgtgggaaaa gctgaccaat 480
taaaagatga aggcaataac cacatgaaag aagaaaatta tgctgctgca gtggattgtt 540
acacacaggc aatagaattg gatcccaata atgcagttta ctattgcaac agggctgctg 600
ctcagagcaa attaggtcac tacacagatg cgataaagga ttgtg 645

<210> 624
<211> 521
<212> DNA
<213> Homo sapiens

<400> 624
ctgagcgtct ctgcttagcc gcggctcatga gccggcacag ccggctgcag aggcaggttc 60
tgagcctgta ccgcgatctg ctgcgcgccg ggcgtgggaa gccgggcgcc gaggcgcgag 120
tgccgggcaga gttccggcag catgcgggcc tgccgcggtc cgacgtgctg cgcattcgagt 180
acctgtaccg ccgcggggcg ccgcagctgc agctgctacg ctccggccac gccaccgcca 240

tgggcgcctt cgtacgcccg cgggccccga ccggggagcc tggcggcgtg gggtcccagc 300
 ctgacgacgg cgacagtcca aggaaccccc acgacagcac gggggcaccg gagacccgcc 360
 ccgacggacg gtgacaggcg aagagccgaa ctgcctcgat ggcgtggtgg agccaggagg 420
 ctgcctgac tgcattggggg gactggggaa cccgcctaag gtgagaggtc ttaagagact 480
 agcttgacga attgggggatg tcagagactc ctcttggcg a 521

<210> 625
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 625
 gaattcggca cgaggagaac atgcagtcta ggaaccggca tgcgcataac ctccaggatat 60
 aaataatgct gaagcagagt tacgtttttt ttgttggtgt tttttttgtt tttgtttttt 120
 taggtttccg tgtgttttcta ttgagctgct cagtggcccg cttagaagac caggaaaagg 180
 agtcacaggc cgtatgctgg aggcttgagc cgcggcaccg tggcgcggct cgcctcgctg 240
 cggttggtgg tggcgggtgga cattgcagcg cggctggagg gggtccttag acaagggtgca 300
 agacaaacag aagagggcat gtgggggtcaa actcctactg cctgcctgat tttctgccac 360
 aggacaaatt cacca 375

<210> 626
 <211> 628
 <212> DNA
 <213> Homo sapiens

<400> 626
 gaattcggca cgaggaaaat gggttcgctat tcacttgacc cggagaaccc cacgaaatca 60
 tgcaaatcaa gaggttccaa tcttcgtgtt cactttaaga acactcgtga aactgctcag 120
 gccatcaagg gtatgcatat acgaaaagcc acgaagtatc tgaaagatgt cactttacag 180
 aaacagtgtg taccattccg acgttacaat ggtggagttg gcagggtgtg gcaggccaag 240
 caatggggct ggacacaagg tcggtggccc aaaaagagtg ctgaattttt gctgcacatg 300
 cttaaaaaacg cagagagtaa tgctgaactt aagggttttag atgtagattc tctggtcatt 360
 gagcatatcc aagtgaacaa agcacctaag atgcgccgcc ggacctacag agctcatggt 420
 cggattaacc catacatgag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 480
 cagattgttc ctaaaccaga agaggagggt gccccagaaga aaaagatatc ccagaagaaa 540
 ctgaagaaac caaaacttat ggcacgggag taaattctca ttaaaataaa tgtaattaaa 600
 aggaaaaaaaa aaaaaaaaaa aactcgag 628

<210> 627
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 627
 gaattcggca cgaggagaaa acgaagcagc gttggaaaat ggaattaaaa atgaggaaaa 60
 cacagaacca ggtgctgaat cttctgagaa cgctgatgat cccaacaaag atacaagtga 120
 aaacgcagat ggtcaaagtg atgagaacaa ggacgactat acaatcccag atgagtatag 180
 aattggacca tatcagccca atgttcctgt tgggtatagac tatgtgatac ctaaaacagg 240
 gttttactgt aagctgtgtt cactctttta tacaatatga gaagttgcaa agaatactca 300
 ttgcagcagc ctctctcatt atcagaaaatt aaagaaattt ctgaataaat tggcagaaga 360
 acgcagacag aagaaggaaa cttaagatgt gcaaggagat ttaatgattt caaagaaaat 420
 aatggttctt tgttttttaat gttaaccttt tttaaataca atactgatag ttagaagaaa 480
 actattgtac tcttttgttt tagtggagaa ataatagatg tctgttcatg tgtaagtgt 540
 tatagcaaaa aaaatacaca tatgggttaag ttaatgaata gtttttgttt tatcagaatg 600

gcaacagaca gaagtacttt gtagagattg acttcctaag ctctt

645

<210> 628
<211> 625
<212> DNA
<213> Homo sapiens

<400> 628
gaattcggca cgaggggatt cagcagcctc ccccttgagc cccctcgctt cccgacgttc 60
cgttcccccc tgcccgccctt ctcccgcac cgccgcccgc gccttccgca ggccgtttcc 120
accgaggaaa aggaatcgta tcgtatgtcc gctatccaga acctccactc ttccgacccc 180
tttgctgatg caagtaaggg tgatgacctg cttcctgctg gcactgagga ttatatccat 240
ataagaattc aacagagaaa cggcaggaag acccttacta ctgtccaagg gatcgctgat 300
gattacgata aaaagaaact agtgaaggcg tttaagaaaa agtttgctg caatgggtact 360
gtaattgagc atccggaata tggagaagta attcagctac agggtgacca acgcaagaac 420
atatgccagt tcctcgtaga gattggactg gctaaggacg atcagctgaa ggttcatggg 480
ttttaagtgc ttgtggctca ctgaagctta agtgaggatt tccttgcaat gagtagaatt 540
tcccttctct tccttgtcac aggtttaaaa acctcacagc ttgtataatg taaccatttg 600
gggtccgctt ttaacttgga ctagt 625

<210> 629
<211> 545
<212> DNA
<213> Homo sapiens

<400> 629
gaattcggca cgagggagcc caggaggcca aggctacagt gagccgtgat catgccactg 60
cactccagcc tgggtgacag agcgagaccc tgtctcttaa caacaaaacc catgagcggc 120
agccccccag tcctggatgg tggtaaagaa tcctcaagat caaacccacg cagtgtctgag 180
agcttggcct gattctaggg ctggggctgg agaaactgct agagatgatg ccgatagcca 240
gtgtgatccc cctgccctga tggtaaggg cagagtgcag actggaaccc tcccctcccc 300
aaagattcag acctgtgggg ctgagtgggc tcatagtgtc cccaagtcct gagaggctgg 360
tgtctggctt cagcctccag cttctcaggt tctgatgcag tcagctgagt tccctgccta 420
ttcttgcaag cactaggagg aagggtgggt ggttgctggg aacagcaccg agcgccctcc 480
ccaccagat tcacagagca cactccccgg ggggatactt taatccggag gccgtgacgc 540
ctgct 545

<210> 630
<211> 605
<212> DNA
<213> Homo sapiens

<400> 630
gaattgggca cgaggcgggc cgcagctttt cggttcacag cgggcaggga aagccgcggg 60
aagggtactc caggcgagag gcggacgcga gtcgtcgtgg caggaaaagt gactagctcc 120
ccttcgttgt cagccaggga cgagaacaca gccacgctcc caccggctg ccaacgatcc 180
ctcggcggcg atgtcggccg ccggtgcccg aggcctgcgg gccacctacc accggctcct 240
cgataaagtg gagctgatgc tgcccagaaa attgaggccg ttgtacaacc atccagcagg 300
tcccagaaca gtttttttct gggctccaat tatgaaatgg gggttggtgt gtgctggatt 360
ggctgatatg gccagacctg cagaaaaact tagcacagct caatctgctg ttttgatggc 420
tacagggttt atttgggtcaa gatactcact tgtaattatt ccaaaaaatt ggagtctgtt 480
tgctgttaat ttctttgtgg gggcagcagg agcctctcag ctttttcgta tttggagata 540
taaccaagac taaaagctaa agcacacaaa taaaagagtt ctgatcacct gaacaatcta 600
gatgt 605

<210> 631
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 631
 gaattcggca cgagggcgac acgagaacat gcctctcgca aaggatctcc ttcattccctc 60
 tccagaagag gagaagagga aacacaagaa gaaacgcctg gtgcagagcc ccaattccta 120
 cttcatggat gtgaaatgcc caggatgcta taaaatcacc acggtcttta gccatgcaca 180
 aacggtagtt ttgtgtgttg gctgctccac tgtcctctgc cagcctacag gaggaaaagc 240
 aaggcttaca gaaggatggt ccttcaggag gaagcagcac taaaagcact ctgagtcaag 300
 atgagtggga aaccatctca ataaacacat tttggataaa aaaaaaaaaa aaaaaaaact 360
 cgag 364

<210> 632
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 632
 gaattccggc acgaggggac cccagagagc cctgagcagc cccaccgccc ccgcccggcct 60
 agttaccatc acaccccggg aggagccgca gctgccgcag ccggccccag tcaccatcac 120
 cgcaaccatg agcagcgagg ccgagaccca gcagccgccc gccgcccccc ccgcccggccc 180
 cggcctcagc gccgcccaca ccaagcccgg cactacgggc agcggcgagc ggagcgggtg 240
 ccggggcggc ctacatcgg cggcgcctgc cggcggggac aagaagggtca tcgcaacgaa 300
 ggtttttggga acagtaaaat ggttcaatgt aaggaacgga tatggtttca tcaacaggaa 360
 tgacaccaag gaagatgtat ttgtacacca gactgccata aagaagaata accccaggaa 420
 gtaccttcgc agtgtaggag atggagagac tgtggagttt gatgttggtg aaggagaaaa 480
 ggggtgcggag gcagcaaattg ttacagggtc tggtggtggt ccagttcaag gcagtaata 540
 tgcag 545

<210> 633
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 633
 gaattcggca cgaggctggt cactccgcca ccgtagaatc gcctaccatt tgggtgcaagc 60
 aaaaagcaat cagcaattgg acaggaaaag aatggcattg aagcagattt ccagcaacaa 120
 gtgctttggg ggattgcaga aagtttttga acatgacagt gttgaactaa actgcaaaat 180
 gaaatttgct gtctacttac caccaaaggc agaaacagga aagtgccttg cactgtattg 240
 gctctcaggt ttaacttgca cagagcaaaa ttttatatca aaatctggtt atcatcagtc 300
 tgcttcagaa catggtcttg ttgtcattgc tccagatacc agccctcgtg gctgcaatat 360
 taaagggtgaa gatgagagct gggacttttg cactggtgct ggatttttatg ttgatgccac 420
 tgaagatcct tggaaaacca actacagaat gtactcttat gtcacagagg agcttcccca 480
 actcataaat gccaattttc cagtgg 506

<210> 634
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 634

```

gaattcggca cgagggagtt gtgggcccag gagccctgcg gctgccggca ggtgaactga 60
gtgcccagaca gctgagaccg gcgcccaccc gtcctgagca tagctctgta ggcagtgcgg 120
gcatagcctg catagtgtcc tggcgctggg agttccccgt ggacagagcc agagggcagt 180
ggcgctccct gtcagagctg gatcaggccc cccatcgagg agggagggca gacggaggcc 240
cgagagcctc cccaggcctc ttcgtgggaa ggcccagta ccactcgtag gaggtctcag 300
ctctggcatg gctgccccgg atgtggccga gggggcttca ccctgtgtcc ttaggagggg 360
gtggccttga ggcaagagcc gtgcctcact gacccccagg ggcctcatcc tccccatgga 420
atgggctgta tgtcctgccc caacttggcc cgcagcaggc cagaccccccc tcccccgcc 480
cagag 485

```

```

<210> 635
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<400> 635
gaattcggca cgaggcttac aaggaaaatg ctgacttatg accggcgctc tgagcctcag 60
gttggggagc gagtgccata cgtcatcatt tatgggaccc ccggagtacc acttatccag 120
cttgtaaggc gccagtgga agtcctgcag gacccaactc tgagactgaa tgctacttac 180
tatattacca agcaaatcct tccacccttg gcaagaatct tctcacttat tgggtattgat 240
gtcttcagct ggtatcatga attaccaagg atccataaag ctaccagctc ctgcggaagt 300
gaacctgaag ggcggaaagg cactatttca caatatTTta ctaccttaca ctgtcctgtg 360
tgtgatgacc taactcagca tggcatctgt agtaaagtgc ggagccaacc tcagcatgtt 420
gcagtcattc tcaaccaaga aatccgggag ttggaacgtc aacaggagca acttgtaaag 480
atatgcaaga actgtacagg ttgctttgat cgacacatcc catgtgtttc tctgaactgc 540
ccagtacttt tcaaactctt ccgagtaaag agagaattgt ccaaggcacc atatcttcgg 600
cagttattaa accag 615

```

```

<210> 636
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

```

```

<400> 636
gaattcggca cnaggccaaa acctgttttg gaagcatatt acagaaatga tttcaagtac 60
cctgtattct ggatgctaaa aaacaaaaac aaacaaaaaa acaaaaacaa aaaaacaaaa 120
ccagaatcag gtaaaacagc tatgtgatta aaatatTTta attcttcagc aattacccgg 180
ttttctaaat tgaatcatgc atctattttat aattcttaatt attttgtaaa agaagacaaa 240
attatgaatc ttaagtattt gtcctatctt tttctctgta atgggtggaga ggctgcccat 300
aattcatctc cacatggagc caagtTTaat gtttctagtt cacattttgt acttctgtca 360
tgcttatttc aaactccctg agtgaatggg aagaaatcaa acattgcctc agtggtatca 420
agagaacttt ggtgggtggt tcttcagaat catgaagtTC ttttgccaga taaatatTTt 480
gatattattt tccttttttaa tata 504

```

```

<210> 637
<211> 449
<212> DNA
<213> Homo sapiens

```


<400> 637

```

gaattcggca cgagggtttaa accctgcgtg gcaatccctg acgcaccgcc gtgatgcca 60
gggaagacag ggcgacctgg aagtccaact acttccttaa gatcatccaa ctattggatg 120
attatccgaa atgtttcatt gtgggagcag acaatgtggg ctccaagcag atgcagcaga 180
tccgcatgtc ccttcgcggg aaggctgtgg tgctgatggg caagaacacc atgatgcgca 240
aggccatccg agggcacctg gaaaacaacc cagctctgga gaaactgctg cctcatatcc 300
gggggaatgt gggctttgtg ttcaccaagg aggacctcac tgagatcagg gacatgttgc 360
tggccaataa ggtgccagct gctgccgtgc tggtgccatt gcccacatgtg aagtcactgt 420
gccagccag aacactggtc tcgggcccgc                                     449

```

<210> 638

<211> 524

<212> DNA

<213> Homo sapiens

<400> 638

```

gaattcggca cgaggggttga ttatggcaag aagtccaagc tggagttctc catttaccca 60
gcaccccagg tttccacagc tgtagttgag ccctacaact ccctcctcac caccacacac 120
accctggagc actctgattg tgccttcacg gtagacaatg aggccatcta tgacatctgt 180
cgtagaaacc tcgatatcga gcgcccacac tacactaacc ttaaccgcct tattagccag 240
attgtgtcct ccatcactgc ttccttgaga tttgatggag ccctgaatgt tgacctgaca 300
gaattccaga ccaacctggg gccctacccc cgcctccact tccctctggc cacatatgcc 360
cctgtcatct ctgctgagaa agcctacat gaacagcttt ctgtagcaga gatcaccaat 420
gcttgctttg agccagccaa ccagatgggtg aaatgtgacc ctgcgccatgg taaatacatg 480
gcttgctgcc tgttgtagcg tggtagcgtg gttcccaaag atgt                                     524

```

<210> 639

<211> 524

<212> DNA

<213> Homo sapiens

<400> 639

```

gaattcggca cgaggggttc tcaactgagt cctactttta tgcctgcct gtggtgagca 60
caaatgttga gcacatcaat cccatttttg tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttcctattca gcctttttgc aatccttcca tctagaggag atgtatctta 300
taatatcctc aaaggcactc tgttgctaag agcagccttg atgaggtccc atatagctca 360
ttggaagcag agctagtctt ggaaactgaa aatgttgagc cagagtctgc ccattccttt 420
agctctgggt ccagctgtgg tctgggggtg aatggagtct gaccttgcct cacacagggc 480
ctgtctgttc tcattgtggc catccacatc ctggagctgc tcat                                     524

```

<210> 640

<211> 524

<212> DNA

<213> Homo sapiens

<400> 640

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gaattcggca cgaggggaga ctacaaggat agggccagga gtaatggagt ccaaagagaa 60
acgagcagta aacagtctca gcatggaaaa tgccaaccaa gaaaatgaag aaaaggagca 120
agttgctaag aaaggggagc ccttggccct ccctttggat gctggatgaat actgtgtgcc 180
tagaggaaat cgtaggcggg tccgcgttag gcagcccatc ctgcagtata gatgggatat 240
gatgcatagg cttggagaac cacaggcaag gatgagagaa gagaatatgg aaaggattgg 300
ggaggagggt agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360

```



```

ggcagtcagc actgaccccc ctcacccatga ccatcatgat gagttttgcc ttatgccctg 420
aatcctgatg gtttccctaa agttattacg gaaacagacc cctgctttcg aatttacatg 480
ttcatgatgt gcccttggtg taaaccttta cctgtcactt gttt 524

```

```

<210> 641
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<400> 641
gaattcggca cgaggcctcg tgccgtgccc cccgaggtat gcgggggtcac tcgctgctcg 60
atgttccctc cgaagggtcg gacaaggctc cggagccctg tagctgccct ccctaggagc 120
cccgggtctt cactggccga ggtgcccacc ccgcagcatt ctgggagtgg tagttttctt 180
ccttcagggtt cattcctggc tggccagtgc ccaagactgg cgagactacg attcccagac 240
gcccgaagcga gtcgccggtc acgtggccgc aaggacgctg ggccggtggg cgggggcccgg 300
caggtgctcc gcagccgtct gtgccaccca gagccggcgg gccgctaggt ccccggagac 360
cctgctatgg tgcgtgcggg cgcctgggg gctcatctcc ccgcgtccgg cttggatatc 420
ttcggggacc tgaagaagat gaacaagcgc cagctctatt accaggtttt aaacttcgcc 480
atgatcgtgt cttctgcact catgatatgg aaaggcttga tcg 523

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<210> 642
<211> 524
<212> DNA
<213> Homo sapiens

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<400> 642
gaattcggca cgagggtgaa ggtgtgtgtc agcttttgcg tcaactcgagc cctgggctcg 60
gcttgctaaa gagccgagca cgcgggtctg tcatcatgtc gcgttacggg cggtagcgag 120
gagaaaccaa ggtgtatggt ggtaacctgg gaactggcgc tggcaaagga gagttagaaa 180
gggctttcag ttattatggt cctttaagaa ctgtatggat tgcgagaaat cctccaggat 240
ttgcctttgt ggaattcgaa gatcctagag atgcagaaga tgcagtacga ggactggatg 300
gaaagggtgat ttgtggctcc cgagtggagg ttgaactatc gacaggcatg cctcggagat 360
cacgttttga tagaccacct gcccgacgtc cctttgatcc aatgataga tgctatgagt 420
gtggcgaaaaa gggacattat gcttatgatt gtcatcgtta cagccggcga agaagaagca 480
ggtcacggtc tagatcacat tctcgateca gaggaaggcg atac 524

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<210> 643
<211> 523
<212> DNA
<213> Homo sapiens

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<400> 643
gaattcggca cgaggggtaa caccagaata tttggcaaag ggagaaaaaa aaagcagcga 60
ggcttcgcct tccccctctc cctttttttt tcttctctct ccttctctct ccagccgccg 120
ccgaatcatg tcgatgagtc caaagcacac gactccgttc tcagtgtctg acatcttgag 180
tccccctggag gaaagctaca agaaagtggg catggagggc ggccggcctcg gggctccgct 240
ggcggcgtac aggcagggcc aggcggcacc gccaacagcg gccatgcagc agcacgccgt 300
ggggcaccac ggccgcgtca ccgcgccta ccacatgacg gcggcggggg tgccccagct 360
ctcgcactcc gccgtggggg gctactgcaa cggcaacctg ggcaacatga gcgagctgcc 420
gccgtaccag gacaccatga ggaacagcgc ctctggcccc ggatggtacg gcgccaaccc 480
agacccgcgc tcccccgcca gttctttttt ttcaggatca ggc 523

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<210> 644
<211> 525

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<212> DNA
<213> Homo sapiens

<400> 644
gaattcggca cgaggggaaaa ccagagatag aggggaaagcc agagagtga ggagagccag 60
ggagtgaac aagggtgca ggaaagcgcc cagctgagga tgatgtaccc aggaaagcca 120
aaagaaaaac taataagggg ctggctcatt acctcaagga gtataaagag gccatacatg 180
atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aagggtgcagg 240
atgagaagag aaaaagcaaa cagaaattgg gggcggtttt gtggatgcaa agaaatttac 300
aggaccctt ctaccctaga ggtccaaggg aattcagggg tggctgcagg gccccacgaa 360
gggacattga agacattcct tatgtgtagt gtccctggca ggcatttacc aggccatgtg 420
ctttaacgtt cggtataact ttactttagg catccctcct gttgctagca gccttttgac 480
ctatctgcaa tgcagtgttc tcagtaggaa atgttcatct gttac 525

<210> 645
<211> 358
<212> DNA
<213> Homo sapiens

<400> 645
gaattcggca cgaggggggtg gtggagcgct gggcgggccag gctccctggc tggccgggtt 60
gggcgtctgg gccgtgaagg tgggacctcc tgttccgggc cgcaagtctt cctctccagc 120
cgcccgccgt tcgtagcatg tccccagaa ctccggggag gcaggcagga caggcttaga 180
gaagacgcgg tccccagcgc ttggggccac gacgtccac cccgctcctc tgtcgtgga 240
gaaccgccgg gccgagccac tgggagaagc aggccagagc cttccagggc ctccggcccc 300
tggacccgag gaggatgagc tggctttttc ccctgaccaa gagcgcctcc tcctccgc 358

<210> 646
<211> 420
<212> DNA
<213> Homo sapiens

<400> 646
gaattcggca cgaggcgctt cttcgcacac tgtgattttg ccctcctgcc cacgcagacc 60
tgcagcgggc aaagagctcc cgaggaagca cagcttgggt caggttcttg cctttcttaa 120
ttttagggac agctaccgga aggaggggaa caaggagtcc tcttccgcag cccctttccc 180
cacgcccacc cccagtctcc agggaccctt gcctgcctcc taggctggaa gccatggctc 240
cgaagtgtag ggcaaggggtg cctcaggacc ttttgggtct cagcctccct cagccccag 300
gatctgggtt aggtggccgt cctcctgctc ctcatgggaa gatgtctcag agccttcatg 360
acctcccctc cccaacccaa tgccaaagtg gacttgggag ctgcacaaag tcagcaggga 420

<210> 647
<211> 518
<212> DNA
<213> Homo sapiens

<400> 647
gaattcggca cgagggctgc cggaggggtcg ttttaaaggc cccgcgcgtt gccgccccct 60
cggccccgca tgctgctatc cgtgccgctg ctgctcggcc tcctcggcct ggccgtcgcc 120
gagcctgccg tctacttcaa ggagcagttt ctggacggag acgggtggac ttcccgtctg 180
atcgaatcca aacacaagtc agattttggc aaattcgttc tcagttccgg caagttctac 240
ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgctt ttatgctctg 300
tcggccagtt tcgagccttt cagcaacaaa ggccagacgc tgggtggtgca gttcacgggtg 360
aaacatgagc agaacatcga ctgtgggggc ggctatgtga agctgtttcc taatagtttg 420

gaccagacag acatgcacgg agactcagaa tacaacatca tgtttggtcc cgacatctgt 480
ggcctgcacc aaaaagggtc atgtcatctt caactaca 518

<210> 648
<211> 561
<212> DNA
<213> Homo sapiens

<400> 648
gaattcggca cgaggggtccg cttgaccgag atgctgcggg cctgtcagtt atcgggtggg 60
acccccgccc ccccaaagtg gctctgtggg aagtttgtcc tccgtccatt gcgaccatgc 120
cgcaaaaact ctacttttagg cagctctggg ttgactactg gcaaaattgc tggagctggc 180
cttttgtttg ttgggtggagg tattgggtggc actatcctat atgccaaatg ggattcccat 240
ttccgggaaa gtgtagagaa aaccatacct tactcagaca aactcttcga gatgggtcct 300
ggtcctgcag cttataatgt tccattgcc aagaaatcga ttcagtcggg tccactaaaa 360
atctctagt tatcagaagt aatgaaagaa tctaaacagc ctgcctcaca actccaaaaa 420
caaaagggag atactccagc ttcagcaaca gcaggtgata cctgtcggg cccagcccct 480
gcagttcagc ctgaggaatc tttaaaaact gatcacctg aaattggtga aggaaaaccc 540
acacctgcac tttcagaaga a 561

<210> 649
<211> 428
<212> DNA
<213> Homo sapiens

<400> 649
gaattcggca cgaggctgag gtggcagata gtgagcgctg gtggcggagt taaagtcaaa 60
gcaggagagt aattatgaat agcgcagcgg gattctcaca cctagaccgt cgcgagcggg 120
ttctcaagtt aggggagagt ttcgagaaac accgcgcgtt gcgccttcca cactgtgcgc 180
tatgacttca aacctgcttc tattgacact tcttctgaag gataccttga ggttggtgaa 240
ggtgaacagg tgaccataac tctgccaaat atagaagggt caactccacc agtaactgtt 300
ttcaaagggt caaaaaacct tacttaaaag aatgcatttt gattattaac catgatactg 360
gagaatgtcg gctagaaaaa ctcagcagca acatcactgt aaaaaaaca agagttgaag 420
gaagcagt 428

<210> 650
<211> 428
<212> DNA
<213> Homo sapiens

<400> 650
gaattcggca cgagggaggg gtccggcgctg gccggcgact gaggggtcgg gctggctctt 60
gagggcccag gccctggccg acgcgcccgc cgtgagcgag gagggccgaa tccgggcgtc 120
tttggttggg ttgcgggccc aggcgcgcgc gccggggtcg ggaggcgtgg caggtggccc 180
gacagccttc tttgacctct gggaaagctg acttattcct atggctttgc ttctagggct 240
ttcttaggcc tctttgccgg ctgcctgggc agcccgcgag gtgggctgga gtaactggat 300
aaaagtatag ggtggaatcg ggcctactag gtacccttag tagtagggaa ggggtggtatt 360
agaccgagag ggaatgttta caactagcgt tacagtttaa tatttgaaaa tccaaagcgg 420
aagactgg 428

<210> 651
<211> 341
<212> DNA
<213> Homo sapiens

<400> 651

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gaattcggca cgagggccgg gccgtgggtg acacgtaagt tgggcaggag gtggcggggc 60
ggcagaggca ccagccgacc cgtcagtgc accgctgtgc cgtcccaaaa accagccgag 120
acagctggcc cccacccttc caccattgg gcaggccgca cgggggcgcg gcccgagtc 180
ctggtccctt tgttgggcgc gcacccctc ccttaggtg caacaaagtc gtgcagtggg 240
agccgcccgc atagggcggg gagtggccag ggcgggactc caagaactgc ccgggggcag 300
cggggccaaa aagtgggaag aaggaaaaaa ggcaggaggc a 341

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<210> 652

<211> 669

<212> DNA

<213> Homo sapiens

<400> 652

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gaattcggca cgagggaaaa tttgtgctct ggagagaact gttaaagctc tagaatttgt 60
tcaaactgaa tctcaaaaag atttggaat aaccaaagaa aatctggctc aagcagttga 120
acaccgcaaa aaggcacaag cagaattagc tagcttcaaa gtcctgctag atgacactca 180
aagtgaagca gcaaggggtcc tagcagacaa tctcaagttg aaaaaggaaac ttcagtcaaa 240
taaagaatca gttaaaagcc agatgaaaca aaaggatgaa gatcttgagc gaagactgga 300
acaggcagaa gagaagcacc tgaaagagaa gaagaatatg caagagaaac tggatgcttt 360
gcgcagagaa aaagtccact tggaagagac aattggagag attcaggtta ctttgaacaa 420
gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagcttgc 480
agcctttact aagagcatgt ctccctcca ggatgatcgt gacaggggtga tagatgaagc 540
taagaaatgg gagaggaagt ttagtgatgc gattcaaagc aaagaagaag aaattagact 600
caaagaagat aattgcagtg gtctaaagga tcaacttaaa cagatgtcat tcatatggaa 660
gaattaaga 669

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<210> 653

<211> 322

<212> DNA

<213> Homo sapiens

<400> 653

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gaattcggca cgaggcttgc ttctgtggaa caatgccaca gtgaccacct gccactccaa 60
gactgcccac ctggatgagg aggtaaataa aggtgacatc ctgggtggtg caactggtca 120
gcctgaaatg gttaaagggg agtggatcaa acctggggca atagtcacgc actgtggaat 180
caattatgtc ccagatgata aaaaacccaa tgggagaaaa gttgtgggtg atgtggcata 240
cgacgaggcc aaagagaggg cgagcttcat cactcctgtt cctggcggcg tagggcccat 300
gacagttgca atgctcatgc ag 322

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<210> 654

<211> 332

<212> DNA

<213> Homo sapiens

<400> 654

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gaattcggca cgagggcggg aagcagctct tgtggatcct cagtggcgga ggctcgggtca 60
cccggatagg taaaggaaaa catgcctgcc acacggaagc caatgagata tgggcataca 120
gagggacaca cggaggtctg ttttgatgat tctgggagtt ttattgtgac ttgtggaagt 180
gatggtgatg tgaggatttg ggaagacttg gatgatgatg atcctaagtt cattaatgtt 240
ggagaaaagg catattcatg tgctttgaag agtggaaaac tggtcactgc agtttctaata 300
aatactattc aagtccacac atttcctgaa gg 332

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<210> 655
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 655
 gaattcggca cgaggaaata aggtgaattt gggacaaatg aaaggtgaga tgaaggcaaa 60
 ctactgtcaa gggatgatct gagcctgaac aactcagtga atgtgaagag aaaacaagat 120
 tacatgtgaa tatagatggt aactggaaaa gcaaggagaa aaaaaggag cacaaggaag 180
 aaaaaaaaaat caaaatttgt gagccatctc aagccatcaa aaaaacttca ttctattgta 240
 ggaggggaagc tggaaacaat ggcagagtaa ttttgtgtta agaattaaag tactagctcc 300
 agttaggcat ataaatgaca attagaaggg acagaagtta tggttatgtc agcagcctcc 360
 agtgagctag gatataaact aagtcttttc aagctgaaca aatatataca cattcaaccc 420
 atttaagtga agagacacat ttaagtccac aaaagcaaac ttaactacct actatataac 480
 ttacttttta ttgaaagtat cttgcattca tgatggatgc tttctgggtt ttaccacata 540
 ttttaatggt aaaagttaaa ttattcttta cat 573

<210> 656
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 656
 gaattcggca cgaggaagaa acttggagga caggtcgata ggtgcggcaa accaccatag 60
 tacacatata cctatgtaac aaacctccac attctgcaca tgtgtcccag aacttaaagt 120
 aaaattttaa aaaaaagaaa agaaatatcc agaaagatta tccagcctca aggtttatat 180
 tataatggct ataaacaaca aaacataaac ctattttcca aaggtttcca aatatactac 240
 cgaagaaaca aacataaaaa acgactttga tattttctaaa aagcataact taaaatttaa 300
 aaaaaaagtt aatgaaaaaa caaacactca atggttactg ccttacttta agaaaaaac 360
 atttagttaa gcacattttc ccccaaagct atttaaacac caagattcag aagtaaacct 420
 tatttagatg agtttctagt caacgaattg acctacataa tc 462

<210> 657
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 657
 gaattcggca cgagggaaga gcggagagct ggagcaggag gaggagcggc tctccaagga 60
 gtgggaggac tccaaacgct ggagcaagat ggaccagctg gccaaggagc tgacggctga 120
 gaagcggctg gaggggcagg aggaggagga ggacaaccgg gacagttcca tgaagctctc 180
 ctcccgggcc cgggcctacg gcttcagggg ccctgggccg cagctgcgac gaggctggag 240
 gccatcctcc cgggaggaca agccttgagg cgggcctgcc ctccaggctc gaggctaccc 300
 cgaggagaag aaagaggagg agggcagcgc aaaccgcaga ccagaggacc aggagctgga 360
 gagcctgtcg gccattgagg cag 383

<210> 658
 <211> 540
 <212> DNA
 <213> Homo sapiens

<400> 658
 gaattcggca cgaggtttct agtcagtgtc gccgccgctg cccgcggctt tgcagagcag 60
 gatgaatgtg atagaccacg tgcgggacat ggccggccgcg gggctgcact ccaacgtgcg 120

gctcctcagc agcttggttac ttacaatgag taataacaac cctgagttat tctccccacc 180
tcagaagtac cagcttttgg tgtatcatgc agattctctc ttcatgata aggaatatcg 240
gaatgctgtg agtaagtata ccatggcttt acagcagaag aaagcgctaa gtaaaacttc 300
aaaagtgaga ccttcaactg gaaattctgc atctactcca caaagtcagt gtcttccatc 360
tgaaattgaa gtgaaataca aaatggctga atgttataca atgctaaaac aagataaaga 420
tgccattgct atacttgatg ggatcccttc aagacaaaga actcccaaaa taaacatgat 480
gctggcaaac ctgtcaagaa ggctggctcag gagcgccctt cagtcaccag ctataaggag 540

<210> 659

<211> 366

<212> DNA

<213> Homo sapiens

<400> 659

gaattcggca cgaggcttca aactcacacc tcccgggagg agctgtcctg gcgccggggtc 60
ccgcggggaa aatgggtggag ccagggcaag atttactgct tgctgctttg agtgagagtg 120
gaattagtcg gaatgacctc tttgatattg atgggtggaga tgcagggtt gcaactccaa 180
tgccctacccc gtcagttcag cagcagcagc ctccatctac tacaacattt gtgctgaatc 240
aaataaatca tcttccaccc ttgggatcta caattgtaat gactaaaaca ccacctgtaa 300
caaccaacag gcaaaaccat cactttaact aagtttatcc agactactgc aagccacgcc 360
ccgtca 366

<210> 660

<211> 514

<212> DNA

<213> Homo sapiens

<400> 660

gaattcggca cgaggaggaa gaaaagcact agcaacttca aagccgacgg cctgtccggc 60
actgctgaag aacaagaaga aaattttgag tttatcattg tgtccctcac tggccaaaca 120
tggcactttt gaagccacga cgtatgagga gcgggacgct gggccaagc catcgagagc 180
cagatcctgg ccagcctgca gtcgtgcgag agcagcaaga acaagtccc gctgacgagc 240
cagagcgagg ccatggccct gcagtcgac cggaaacatgc gcgggaactc ccactgtgtg 300
gactgcgaga cccagaatcc caactgggcc agtttgaact tgggagccct catgtgcac 360
gaatgctcag ggatccaccg gaatccttggc acccaccttt cccgagtcgg atctctggac 420
ctggatgact ggccaatcga gctcatcaag gtgatgtcat ccatcgggaa cgagctagcc 480
aacagcgtct gggaagagag cagccagggg cgga 514

<210> 661

<211> 515

<212> DNA

<213> Homo sapiens

<400> 661

gaattcggca cgaggcggag tcaaggtgga cgcgagagac cacagtggag ccacagcccg 60
gatgctggcc aagcagtagc gacacatgaa gatcgtggcc ttgatggaca cttactcgcc 120
ctctctgccc aagagcctct atcggagccc agaaaagtac gaagatctga gctcttctga 180
cgagtcctgc cctgctcctc agagacagag gccttgccgg aagaaggggtg tcagcatcca 240
cgagggaccg cgagccctgg ccaggatcac aggcattggc ctggggcgga gagccccacg 300
gcctcgctat gagcaggctc ctccccgtgg ctatgtcacc ttcaacagca gtggcgagaa 360
ccccctggaa gaagagggcc tctgctgccg ggatgtcacc tcccccatca atgagcggga 420
cgtggagagc agcagcagca gcagcagtcg ggaggaacat gctttctgtg ccaacctggg 480
gcccgctccag agcagcagca gcagcagggg cctgg 515

<210> 662
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 662
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 gagaggctcg aggagcggta actaccccggt ctgcgcacag ctgcggcgctc cttcccgcctc 120
 cctcacacac cggcctcagc ccgcaccggc agtagaagat ggtgaaagaa acaacttact 180
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 tttctcaage ttacgaagtt ctctctgatg caaagaaaag ggaattatat gacaaaggag 360
 gagaacaggc aattaaagag ggtggagcag gtggcggttt tggctcccc atggacatct 420
 ttgatatgtt ttttggagga ggaggaagga tgcagagaga aaggagaggt aaaaatgttg 480
 tacatcagct ctcatgaacc ctagaagact tatataatgg tgcaacaaag aaaactggct 540
 ctgcaaaaaga atgtgatttg tgacaaatgt 570

<210> 663
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 663
 gaattcggca cgagggcgcg gaggggctgg ctgggcagga ggggttggcg gggcagcagg 60
 gccgcggcca tggggagctt gaaggaggag ctgctcaaag ccatctggca cgccttcacc 120
 gcactcgacc aggaccacag cggcaaggct tccaagtccc agctcaaggc cctttcccat 180
 aacctgtgca cgggtgctgaa ggttcctcat gaccaggttg cccttgaaga gcacttcagg 240
 gatgatgatg aggggtccagt gtccaaccag ggctacatgc cttatttaaa caggttcatt 300
 ttgaaa 307

<210> 664
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 664
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 cgggtgcctg ggctgggtgg aacagccgcc cgaaggaagc accatgattt cggccgcgca 120
 gttgttgat gagttaatgg gccgggaccg aaacctagcc ccggacgaga agcgcagcaa 180
 cgtgcggttg gaccacgaga gcgtttgtaa atattatctc tgttggtttt gtcctgcgga 240
 attgttcaca aatacacgtt ctgatcttgg tccgtgtgaa aaaattcatg atgaaaatct 300
 acgaaaacag tatgagaaga gctctcgttt catgaaagtt ggctatgaga gagatttttt 360
 gcgatactta cagagcttac ttgcagaagt agaacgtagg atcagacgag gccatgctcg 420
 tttggcatta tctcaaaacc agcagtcttc tggggccgct ggcccaacag gcaaaaaaaaa 480
 aaaaaaaaaa ctcgag 496

<210> 665
 <211> 517
 <212> DNA
 <213> Homo sapiens

<400> 665
 gaattcggca cgaggggact cgcgagagag gactcacgga cctccaggac ctattaactt 60
 gacagacccg cccctctatt cgagccagcc caactcggag aactcagagt catcctcgag 120


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agtaaagaaa gctcttagag tttttttttt ttgacaaat ctatcttaaa tgtcagtcca 180
atatccacgg cgacgagcca cagcaggtga gaaacctgga aatgagcctg aagaggtgaa 240
gctgcagaat gccagcaaac agattgtgca gaatgcaatc ctgcaagctg tgcagcaagt 300
ctcccaggag agtcagcgca gagaagagag aatcagtgac aaccgggacc acatccaact 360
gggcgttggg gagttaacca agaagcacga aaagaagtaa catgggtggat ttggctcttg 420
acatgtgctt ggtttctagc cttcctctta gtataggacg catctcccaa atgttgccag 480
taaagcaaac ccgaagtggc acccggccct aacttgt 517

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<210> 666
 <211> 616
 <212> DNA
 <213> Homo sapiens

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<400> 666
gaattcggca cgagggggccg ctcttgtcct tctctccgct ttttcttctc tctccttgcg 60
gtctgaagat gccctcggcc accagccaca gcgggagcgg cagcaagtcg tccggaccgc 120
caccgccgtc gggttcctcc gggagtgagg cggccgcggg agccggggcc gccgcgccgg 180
cttctcagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg aagcagattc 240
tcgggggtgat cgacaagaaa cttcggaacc tggagaagaa aaagggtgag cttgatgatt 300
accaggaacg aatgaacaaa ggggaaaggc ttaatcaaga tcagctggat gccgtttcta 360
agtaccagga agtcacaaat aatttggagt ttgcaaaaga attacagagg agtttcatgg 420
cactaagtca agatattcag aaaacaataa agaagacagc acgtcgggag cagcttatga 480
gagaagaagc tgaacagaaa cgtttaaaaa ctgtacttga gctacagtat gttttggaca 540
aattgggaga tgatgaaagt gcggacttga cctgaaacaa ggggttgatg ggagtggcaa 600
tattgtccga agagga 616

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<210> 667
 <211> 596
 <212> DNA
 <213> Homo sapiens

```

<400> 667
gaattcggca cgaggggaaa ttagtgctct ggagagaact gttaaagctc tagaatttgt 60
tcaaactgaa tctcaaaaag atttggaaat aaccaaagaa aatctggctc aagcagttga 120
acaccgcaaa aaggcacaag cagaattagc tagcttcaaa gtcctgctag atgacactca 180
aagtgaagca gcaagggtcc tagcagacaa tctcaagttg aaaaagggaac ttcagtcaaa 240
taaagaatca gttaaaagcc agatgaacaa aaaggatgaa gatcttgagc gaagactgga 300
acaggcagaa gagaagcacc tgaaagagaa gaagaatatg caagagaaac tggatgcttt 360
gcgcagagaa aaagtccact tggaagagac aattggagag attcaggtta ctttgaacaa 420
gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagcttgc 480
agcctttact aagagcatgt cttccctcca ggatgatcgt gacaggggtga tagatgaagc 540
taagaaatgg gagaggaagt ttagtgatgc gattcaaagc aaagaagaag aaatta 596

```

<210> 668
 <211> 297
 <212> DNA
 <213> Homo sapiens

```

<400> 668
gaattcggca cgaggggaaa caccatggct gcggcggccc agctctctct gacacagtta 60
tcaagtggga atcctgtata tgaaaaatac tatagacagg ttgatacagg caatactgga 120
agggtgttgg cttctgatgc tgctgctttc ctgaaaaaat cagggttcc agacttgata 180
cttggaagaa tttgggattt agccgacaca gatggcaaag gtatcctgaa caaacaagaa 240
ttctttgttg ctttgctgtc tgtggcatgt gcccagaatg gattggaagt ttcacta 297

```

<210> 669
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 669
 ggcacgaggg atcggtcgcc tgagaggtat cacctcttct gggctcaaga tggacaacaa 60
 gaagcgcctg gcctacgcca tcatccagtt cctgcatgac cagctccggc acgggggcct 120
 ctcgctccgat gctcaggaga gcttggaagt cgccatccag tgcctggaga ctgcgttttg 180
 ggtgacggta gaagacagtg accttgcgct ccctcagact ctgccggaga tttttgaagc 240
 ggctgccacg ggcaaggaga tgccgcagga cctgaggagc cccgcgcgaa ccccgccctc 300
 cgaggaggac tcagcagagg cagagcgcct caaaaccgaa ggaaacgagc agatgaaagt 360
 ggaaaacttt gaagctgccg tgcatttcta cggaaaagcc atcgagctca acccagccaa 420
 cgccgtctat ttctgcaaca gagccgcagc ctacagca 458

<210> 670
 <211> 634
 <212> DNA
 <213> Homo sapiens

<400> 670
 gaattcggca cgaggctcag ctgacaagga ctggggacgg cgggtgtcctt gtcttgcctt 60
 tgtcgccccc gccctctctt tccctggctg gacttgcgga gtccccgccg aagaaccgga 120
 ggagccatat attgaagacc atgtctggaa gcttctactt tgtaattgtt ggtcaccatg 180
 ataatccagt ttttgaaatg gagtttttgc cagctgggaa ggcagaatcc aaagacgacc 240
 atcgtcatct gaaccagttc atagctcatg ctgctctcga cctcgtagat gagaacatgt 300
 ggctgtcgaa caacatgtac ttgaaaactg tggacaagtt caacgagtgg tttgtgtcaa 360
 catttgtcac cgcggggcat atgaggggta ttatgcttca tgacataaga caagaagatg 420
 gaataaagaa cttctttact gatgggttat atttatatat aaaattttca atgaatccat 480
 tttatgaacc caattcttct attcgatcaa gtgcatttga cagaaaagtt caatttcttg 540
 ggaagaaacc ctttttaagc tgaatggaga aaattccaaa taaattatat caccaccatg 600
 gtgtatactc aaaaaaaaaa aaaaaaaact cgag 634

<210> 671
 <211> 517
 <212> DNA
 <213> Homo sapiens

<400> 671
 gaattcggca cgaggcaaag gcgtatctca gatgcccttg agatatggaa tgaaccacaa 60
 tcagaccctt gccagctgt acacactgca gcccaagctt cccatcacag ttctaaatgg 120
 agcccctgga tttataaact tgtgcgatgc tttgaacgcc tggcagctgg tgaaggaaact 180
 caaggaggct ttaggtattc cagccgctgc ctctttcaaa catgtcagcc cagcaggtgc 240
 tgctgtttgga attccactca gtgaagatga ggccaaagtc tgcatggttt atgatctcta 300
 taaaaccctc acaccatct cagcggcata tgcaagagca agaggggctg ataggatgtc 360
 ttcatattgt gattttgttg cattgtccga tgtttgtgat gtaccaactg caaaaattat 420
 ttccagagaa gtatctgatg gtataattgc cccaggatat gaagaagaag ccttgacaat 480
 actttccaaa aagaaaaatg gaaactattg tgtcctt 517

<210> 672
 <211> 516
 <212> DNA
 <213> Homo sapiens

<400> 672

```

aattcggcac gagggtttaa acagatttct caagcttacg aagttctctc tgatgcaaag 60
aaaagggaat tatatgacaa aggaggagaa caggcaatta aagaggggtgg agcagggtggc 120
ggttttggct ccccatgga catctttgat atgttttttg gaggaggagg aaggatgcag 180
agagaaagga gaggtaaaaa tgttgtaacat cagctctcag taaccctaga agacttatat 240
aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa atgtgaaggt 300
agaggaggta agaaaggagc agtagagtgc tgtcccaatt gccgaggtag tggaatgcaa 360
ataagaattc atcagatagg acctggaatg gttcagcaaa ttcagtctgt gtgcatggag 420
tgccagggcc atggggagcg gatcagtcct aaagatagat gtaaaagctg caacggaagg 480
aagatagttc gagagaagaa aattttaaaa gttcat 516

```

<210> 673

<211> 516

<212> DNA

<213> Homo sapiens

<400> 673

```

aattcggcac gaggaacgag actgtgtctc aaaaaaatcc agaagcttta tcccagggtct 60
actggacttc ctagaacacc aagaaaggaa aggggaattcg cctgtcatga tttagaatca 120
tgggggaata ttgtactacc caaataatga gtgacaaaaa ggtacctcct tgtttttaag 180
ccacaacttg aagcagttag caaggaggtc tatttttggtg agaaagttgg tgggttccat 240
tttcaacatg tgattcaaata tacttaatac aggctgggac agggagaatg tgagcagctg 300
atattccagc tgagattagg ggtccatttg tagagatggt tccagaagac caaaactatg 360
gaaagaatga cagggtcaaa gtggaggagc tgccggggac atccagcagt cagagaattt 420
ctgaattgaa aacatggcca agcgcagtag ctcatccttg taatccccac actttgggag 480
accaaagcag aaggatccct tgaggccagg agttca 516

```

<210> 674

<211> 516

<212> DNA

<213> Homo sapiens

<400> 674

```

gaattcggca cgaggcttga gtgacgatgt ccctatcagg gactatcgca tcgatgagaa 60
gaactttgtg gtcgtcatgg tgaccaagac caaagccggc cagggtacct cagcaccccc 120
agaggcctca cccacagctg cccacagatc ctctacatcc ttcccgcctg cccacactca 180
ggcatgtccc atccccacc tgccgccaga gaggacaaga gcccatcaga ggaatccgcc 240
cccacgacgt cccacagatc tgtgtcaggc tctgttccct cttcaggtag cagcggggcg 300
gaggaagacg cggcctccac gctagtgcag ggctctgagt atgagacgat gctgacggag 360
atcatgtcca tgggctatga gcgagagcgg gtcgtggccg cctgagagcc agctacaaca 420
acccccaccg agccgtggag tatctgctca cgggaattcc tgggagcccc gagccggaac 480
acggttctgt ccaggagagc caggtatcgg agcagc 516

```

<210> 675

<211> 406

<212> DNA

<213> Homo sapiens

<400> 675

```

cctcgtgccg aattcggcac gaggatcagt ttaaaacagt gcctgggctc ccagccctcc 60
actcacttcc ctgttctctg catgggtgat actgagaggt tgggaggcat aggaaggggg 120
aagatcctag ggagtatatg tgagcattga ctatatgcag agggtttttag tggtgctcgt 180
tagaaatggt tggaggcgga tagaaaatat ttttagaaga gcatcctccc aatgttctct 240

```

ccttttttttc tggatggaag atgtttttgt gccagaaatc agattgatac ccaaagtgag 300
 atttccagtt tactccacag gtcccctaata ttaagggat catcactctt gttcttttttc 360
 taatcagtta gtagtgctat tcctgatcac tgggaagtgc tgttgt 406

<210> 676
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 676
 gaattcggca cgagggacat ttcttggcat tgaagaaaaa tttaggcctt tttattttaag 60
 tcaattagaa gaaagtgtag aagaggacgt gaagagtta aagaaagagt attcaaacga 120
 aaaatgcagt tgtgaagaga atgcagtctc ttcacttgat tgtgtggcag taccttcaag 180
 ccggtcaaat tcagccacag aacagcctgg ttcacttgca cagttcccag ggacttggga 240
 tgggtcctgt ggaggagtcc tggtttgctc cttccctgga gcacccacaa gaagagaatg 300
 agcccagcct gcagagtaaa ctccaagacg aagccactac catctttatg gcagccgcat 360
 ggacaggcag acgaaacagc agcccagaca gaatgtggct tacaacagag aggaggaaag 420
 gagacgcagg gtctcccatg acccttttgc acagcaaaga ccttacgaag aattttcaga 480
 atacagaggg aaaaggcctg gttattccag tgcagccagt catggtaat 529

<210> 677
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 677
 tggatccaaa gaattcggca cgaggcctct atctcctaga tgacaggatc tatgcaacta 60
 acccagagat gacacagaga tgaatgagat gtggctcctg tcatcaagga gctcatgatt 120
 caatggggaa ctaacactta gatgcatggg cagttaggga catgcaagaa tctttgtaat 180
 gcaacaagag agaagttaca aggcagcacg gaagtcaatg ccggtgaacc cagatggcct 240
 ggtgagagga gcctggacta gaaggaatta ctctcacttc caccacccga tgtatggaaa 300
 ctgctatact ttcaatgaca agaacaactc caacctctgg atgtcttcca tgcctggaat 360
 caacaacggt ctgtccctga tgctgcgcgc aaagcagaat gacttcattc ccctgctgtc 420
 cacagtgact ggggcccggg taatggtgca cgggcaggat gaacctgcct ttatggatga 480
 tgggtggcttt aacttgccgc ctggcggtgga gacctccatc agcatgag 528

<210> 678
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 678
 gtggatccaa agaattcggc acgaggctgg acaggcgggt gtgaggagt ttgcagacccaa 60
 acccagctgc attttgggac aattgctttt taaaacgttt ttatgccaaa aatccttcat 120
 tgtgattttc agaaccacgt cagatatacc aagtgactgt gtgtgggggt tgacaactgt 180
 ggaaaggcga gcagaaaact ccggcgggtct gaggccatgg aggtggttgc tgcatttgag 240
 agggagtagg gggctagatg tggctcctag tgcaaaccgg aaacctatgg accttccaga 300
 gccgtggtct caaggagtca gagcagggtc ggcctcagt agctgcagg agctttgatg 360
 caacttattt gtaagaagga tttttaaat ttttatgggt agaattgtag tcaggaaaac 420
 agaaagggtc tgaaatttaa taagtgtgc tgggaaggga ttttccaagc ctggaagggt 480
 attcagcagc tgtggtgggg aaacatttct cctgaaagac tgaacgtg 528

<210> 679
 <211> 309

<212> DNA
<213> Homo sapiens

<400> 679

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gaattcggca cgagggcaag atgggtcacc agcagctgta ctggagccac ccgcgaaaat 60
tcggccaggg ttctcgctct tgctgtgtct gttcaaaccg gcacgggtctg atccggaaat 120
atggcctcaa tatgtgccgc cagtgtttcc gtcagtaacg gaaggatata ggtttcatta 180
agttggacta aatgctcttc cttcagagga ttatccgggg catctactca atgaaaaacc 240
atgataattc tttgtatata aaataaacat ttgaaaaaac ccttcaaaaa aaaaaaaaaa 300
aaactcgag                                     309
```

<210> 680
<211> 366
<212> DNA
<213> Homo sapiens

<400> 680

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gaattcggca cgagggcgggc cgttatccat ttgtgttggt cgccagctag gcctggcctc 60
gtcccgcctc gctcggtcgg tctcgcgcg ccccatagcc ttgctagagg gttagcgta 120
gccttaaagt gtgcgaatcc cgaaggaagc aagcgacaga actogaagaa ccaccgcttc 180
ctttccttcg gggaaaggaa ggcgggcacc ctgcggtttt gaaaggcccc gcccttgccg 240
ttttggaagg ccccgccctt gcgctttgcg ggccccgcct tgcgctttga aggcttgctc 300
ttgccgtttt gaaaatctca tttggggccg tggattgaag gaattttggg ggaaggtttt 360
tggggc                                         366
```

<210> 681
<211> 495
<212> DNA
<213> Homo sapiens

<400> 681

```
gaattcggca cgagggcgcg agccggcccg gagaggctcg gacccccagg acctccagcc 60
tttagaccct ccggccctag gacccccgga acctgggacc cccgagacct cagcactcgc 120
ggcgggggga tggatcatgg gacttctggg gcttgaagac cctgggtctg cgggaagccc 180
ctgctgagcg tccctcgccct acccgtggc cagtggcttt tcagtgcaga aaccacctta 240
tctatgtgac aaagctcggg ccatacagtg caaggtagat tggcatcacg tacctttgat 300
acaacaacct gagaaggacg tcaacttctgc gatattcctg ccaaaaatgc atctccgcac 360
tccgatcgtg agaacatcct gggcacaccc aaactgagag acaccataca aagtgactgg 420
tcagtgcact caaaggcaaa aagctcatgg aaggcaacag aagacaggag aagtgcacgc 480
taaaagcagc gtgga                                         495
```

<210> 682
<211> 529
<212> DNA
<213> Homo sapiens

<400> 682

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gaattcggca cgaggggtgaa acagccgctt gagtttggct gcgggtggag aacgtttgtc 60
aggggccccg ccaagaagga ggcccgctg ttacgatggg gtccatgagt ttcaagcgga 120
accgcagtga ccggttctac agcaccgggt gctgcggctg ttgccatgtc cgcaccggga 180
cgatcatcct ggggacctgg tacatggtag taaacctatt gatggcaatt ttgctgactg 240
tggaagtgac tcatccaaac tccatgccag ctgtcaacat tcagtatgaa gtcacggta 300
attactattc gtctgagaga atggctgata atgcctgtgt tctttttgcc gctctgttct 360
tatgtttata atcagttcaa tgctgggtta tggagcaatt tcttatcaag tgggttggct 420
```

gattccattc ttctgttacc gactttttga ctctgtctc agttgcctgg ttgctattag 480
 ttctctcacc tatttgccaa gaatcaaaga atatctggat caactacct 529

<210> 683
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 683
 gaattcggca cgagggaaca ccatgccttc aattaagttg cagagttctg atggagagat 60
 atttgaagtt gatgtggaag ttgccaaaca atctgtgact attaagacca tgttggaaga 120
 tttgggaatg gatgatgaag gagatgatga ccaggttcct ctaccaaag tgaatgcagc 180
 aatattaaaa aaggtcattc agtgggtgcac ccaccacaag gatgaccctc ctctcctga 240
 agatgatgag aacaaagaaa agcgaacaga tgatatccct gtttgggacc aagaattcct 300
 gaagttgcca aggaacactt ttttgactca ttctggctgc aaactactta gacatcaaag 360
 gtttgcttga tgtacatgca agactgttgc caatatgatc aaggggaaaa ctctgagga 420
 gattcgcaag accttcaata tcaaaaatga ctttctgaag aggaggaacc cagtcgcaaa 480
 gagaccagtg ggtgaagaga agtgaatgtt gtgctgcact gtacctg 527

<210> 684
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 684
 ctcgagtttt tttttttttt ttttatagta caaacttagg gctctttatt caggcagtaa 60
 agtaaggaac agcaaagtgg gagggctaca ccatcaccat ggcaacagaa agcctcaaaa 120
 acataaagtc cctcgactta tgtcgggtag actcttccta gctcaggaga aacacatttt 180
 aactggctga ggacaaggcc aggcagcctg gccacactgc ggaagggcag ctggacgcgc 240
 ggcctctggt cagtcctgga agtgcttggg gagggcttcc agcagctcct gcttcttcag 300
 cccactcttc agcccgtgag cccggcaggc ctctttcagc atgggcacag tgaacttgcc 360
 cagcgtaccc ttgctgatgt gggcttctcag ctctcttctt gaatactcca ccttgggcct 420
 tttgcttcca gaaccttcat t 441

<210> 685
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 685
 aagaattcgg cagcaggccg agctgaagtt cgaacccact atgatcccc togaaagctc 60
 atggctatgc agcggccagg tccctatggt ggagggtatg gaggctatga tgactatggt 120
 ggctataatg atggatatgg ctttgggtct gatagatttg gaagagacct caattactgt 180
 ttttcaggaa tgtctgatca tagatacggg gatggtgggt ccagtttcca gagcaccaca 240
 gggcactgtg tacacatgag ggggttacct tacagagcca ctgagaatga tatttataat 300
 ttcttctcac ctcttaatcc catgagagta catattgaaa ttggaccgga tggcagagtt 360
 accggtgagg cagatgttga atttgctact catgaagatg ctgtggcagc tatggcaaaa 420
 gacaaagcta atatgcacac agatatgtgg agctcttctt aaattctctg caggaacaag 480
 tgggggtgct 490

<210> 686
 <211> 618
 <212> DNA
 <213> Homo sapiens


```

<400> 686
gaattcggca cgaggctttt ttattctgtg aatgtttttg tttttattat gaaatatatt 60
aaaattgaaa agtacagaga ataatcgggtg tctactgtaa caccaccaga tttaacaatg 120
ttaatgttac gccatatttg tttcaaatat ttttgtaata ttgaacatta tggatagagt 180
taaagcttgt ttgtatccat cccgttggtt acattctcca tcccctacat aggtaaccac 240
tattctgaag ttgatgtgta ttctttgtgt acatgctttt ataccttttc tgcataatgta 300
tgtatccata aataatatgt agtctgttgt gtgtttttta actttacaca gtggatgtcg 360
tactcttaca tgtattctgc agcttgcat tttcacacat tcattttgaa tattcgttca 420
tgttaacaat gtagatctag ttttcttttt aaactctgta tagtattctt atgtatgaca 480
tacacttggt gttatacatt tgaattatth ccaggatttc ttttttgtgt gtggtatgta 540
aagtcacgat ggcagagatt tttgaaggaa gataaattat tttaggatta catttacagc 600
gcaggcccac ttcaaggt 618

```

```

<210> 687
<211> 410
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 396
<223> n = A,T,C or G

```

```

<400> 687
ggggatcaga ggctggtgag gttggccctg ttgcagcatc tgccggcctt ctatggtatt 60
aaggtgaagg gtgtccgtgg gcagtgcgat cgcaggagac atgaaacagc agccacggaa 120
atagggggta aaatattttg agtacctttt aatgcactgc cccattctgc tgtaccagaa 180
tatggacaca ttccaagctt tcttgctgat gcttgacat ctttagaaga ccatattcat 240
accgaagggc tttttcggaa atcaggatct gtgattcgcc taaaacacta aagaataaag 300
tggtatcatg ggaagggttg ctatctctgc acctccttgg gatattgcgg gacttcttaa 360
gcagtttttt agggactgcc agagcccat ctccnctga tttgcatgaa 410

```

```

<210> 688
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 688
ggccggtgca gcgggggggc ccggggggccc tgggtggccct gggatgggga accgcggtgg 60
cttccgcgga ggtttcggca gtggcatccg gggccggggt cgcggccgtg gacggggccg 120
ggcccgaggc cgcggagctc gcggaggcaa ggccgaggat aaggagtggg tgcccgtcac 180
caagttgggc cgcttggtca aggacatgaa gatcaagtcc ctggaggaga tctatctctt 240
ctccctgccc attaaggaat cagagatcat tgatttcttc ctgggggcct ctctcaagga 300
tgaggttttg aagattatgc cagtgcagaa gcagaccgt gccggccagc gcaccagggt 360
caaggcattt gttgctatcg gggactacaa tggccacgtc ggtctgggtg tt 412

```

```

<210> 689
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 689

```



```

gccttgctaa cgctgccgtc ggggaggatt gatgtccctt cagcatcatg cagcccgcgc 60
ccgaggaagg tgaaagttac acaagaactg aaaaacattc aagttgagca gatgacaaaa 120
cttcaagcca aacatcaagc agaatgtgat ttgcttgaag atatgaggac attcagtcag 180
aagaaggctg ctattgaaag agagtatgca cagggatgac agaagttggc tagtcaatac 240
ctgaagagag attggcctgg agtaaaagct gatgatcgga atgattacag gagcatgtat 300
cccgtttgga aatcttttct cgagggaaca atgcaggtag cccagtctcg gatgaatata 360
tgtgaaaact ataaaaactt catttctgac ctgcaaggac agtgagaagc tt 412

```

<210> 690
 <211> 412
 <212> DNA
 <213> Homo sapiens

```

<400> 690
gggcggcccc gcgcggggct ctcatagtgc tggagggcgt ggaccgcgcc gggaagagca 60
cgcagagccg caagctggtg gaagcgcgtg gcgcgcgcgg ccaccgcgcc gaactgctcc 120
ggttcccggg aagatcaact gaaatcggca aacttctgag ttcctacttg caaaagaaaa 180
gtgacgtgga ggatcactcg gtgcacctgc ttttttctgc aaatcgctgg gaacaagtgc 240
cgttaattaa ggaaaagttg agccagggcg tgaccctcgt cgtggacaga tacgcatttt 300
ctggtgtggc cttcaccggt gccaaaggaga atttttccct agactggtgt aaacagccag 360
acgtgggcct tcccaaaccg gacctggtcc tgttcctcca gttacagctg gc 412

```

<210> 691
 <211> 412
 <212> DNA
 <213> Homo sapiens

```

<400> 691
ggttttcatc cttgaaaaac agtaagaaat atgctcccac cgaggcacag ttgaatgctg 60
ttgatgcttt gattgactcc atgagcttgg caaagaaaga tgagaagaca gacacccttg 120
aagacttggt tccaaccacc aaaatcccaa atcctcgatt tcagagatta tttcagtgtc 180
tgctgcacag agctttacat ccccgggagc ctctaccccc aattcagcag catatttgga 240
atatgctgaa tcctcccgtg gaggtgacaa cgaaaagtca gattcctctc tctaaaataa 300
agaccctttt tcctctgatt gaagccaaga aaaaggatca agtgactgct caggaaattt 360
tccaagacaa ccatgaagat ggacctacag ctaaaaaatt aaaaactgag ca 412

```

<210> 692
 <211> 412
 <212> DNA
 <213> Homo sapiens

```

<400> 692
gcttggttgt ggatcgctgt gatcgctcact tgacaatgca gatcttcgtg aagactctga 60
ctggtaagac catcaccctc gaggttgagc ccagtgcacac catcgagaat gtcaaggcaa 120
agatccaaga taaggaaggc atccctcctg accagcagag gctgatcttt gctggaaaac 180
agctggaaga tgggcgcacc ctgtctgact acaacatcca gaaagagtcc accctgcacc 240
tggtgctccg tctcagaggt gggatgcaaa tcttcgtgaa gacactcact ggcaagacca 300
tcacccttga ggtggagccc agtgacacca tcgagaacgt caaagcaaag atccaggaca 360
aggaaggcat tcctcctgac cagcagaggt tgatctttgc cggaaagcag ct 412

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<210> 693
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 693
 ggtgaatggt agtggtgcca cctgtgctg aggcctgagg cctcttcctc agctttatct 60
 ccctttcctt cactcaaggg ccatttcccc agtccctatc tcccccatcc cctcccggct 120
 tataggcccc acaggtgcta tttgttgtgc tggcccaggc gtggggctac caagcaaagg 180
 cttggcatat accaaaggcc aagctgcatg ccattaatc tgggcttttt tcttttgctg 240
 gtcaatgtgg gttttaatgc tgaatcaa atgtttaacttt tccaagactt gggggaatct 300
 gaagttccca tctacacttc taccactttt tcttgcccaa cctaaacctt cgtttaagta 360
 attggaaggg actggttccc ttccttttgt tggaagggaa ccaggaagga aag 413

<210> 694
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 100,138,202,203,211,237,287
 <223> n = A,T,C or G

<400> 694
 actagtggat ccaaagagag agagagagag agagagagag agagagagag agagagagag 60
 agagagagag agagaggcgc ccgaggcgcg gaggggctgn ctgggcagga ggggttggcg 120
 gggcagcagg gccgcggnca tggggagctt gaaggaggag ctgctcaaag ccatctggca 180
 cgcttccacc gcactcgacc annaccacag nggcgaggtc tccaagtccc agctcanggt 240
 cctttcccat aacctgtgca cggtgctgaa ggttcctcgt gaccanttg cccttgaaga 300
 gcacttcagg gatgatgatg aggggccagt gtccaaccag ggctacatgc cttatttaaa 360
 caggttcatt ttggaaaagg tccaagacaa ctttgacaag attgaattca ataggatgtg 420
 ttgggaccct ctgtgtcaaa a 441

<210> 695
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 695
 gctcgtctcc cgcggcccag cgctcgacc accgcttctc cctccctgtc gcagccgcgc 60
 cgccgcgcag cgcccagcc acacgccggc gggcagaagc cgcccgtctt ccggaaagtg 120
 ataacagaat tcattgaagt ggagaatttt taaagaaggt aacaaaaaga gaaagaaaat 180
 gccgaaacca atcaacgtaa gagtaactac aatggatgct gagctggaat ttgccattca 240
 gcccaataca actggcaaac aactttttga ccaggtgggtg aaaacagttg gtttgctgta 300
 ggtctgggtt tttgggctgc agtatgtaga cagcaaaggt tattctacat ggcttaaaact 360
 aaataaaaag gtaacacagc aggatgttaa aaaagagaat cctttacagt tca 413

<210> 696
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 696
 ggcttgatgg tcgaggccat ctctggggc gcctggcggc catcgtggct aaacaggtag 60
 tgctgggccc gaaggtgggt gtcgtacgct gtgaaggcat caacatttct ggcaatttct 120
 acagaaacaa gttgaagtac ctggctttcc tccgcaagcg gatgaacacc aacccttccc 180
 gaggccccta ccacttccgg gcccccagcc gcatcttctg gcggaccgtg cgaggtagtc 240

tgccccacaa aaccaagcga ggccaggccg ctctggaccg tctcaaggtg tttgacggca 300
 tcccaccgcc ctacgacaag aaaaagcgga tggtaggtcc tgctgccctc aaggtcgtgc 360
 gtctgaagcc tacaagaaag tttgcctatc tggggcgcc 399

<210> 697
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 697
 gcagtagctg ggtgggcacc atggctggga tcaccacccat cgaggcggtg aagcgcaaga 60
 tccaggttct gcagcagcag gcagatgatg cagaggagcg agctgagcgc ctccagcgag 120
 aagttgaggg agaaaggcgg gcccggaac aggctgaggc tgaggtggcc tccttgaacc 180
 gtaggatcca gctggttgaa gaagagctgg accgtgctca ggagcgctg gccactgccc 240
 tgcaaaagct ggaagaagct gaaaaagctg ctgatgagag tgagagaggt atgaaggtta 300
 ttgaaaaccg ggccttaaaa gatgaagaaa agatggaact ccaggaaatc caactcaaag 360
 aagctaagca cattgcagaa gaggcagata ggaagtat 398

<210> 698
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 698
 gaactcaaaa gtggaaaata tgtacaatct gtaatgagct ttttcctgaa aatgtctata 60
 gtgtgcactt cgaaaaagaa cataaagctg agaaagtccc agcagtagcc aactacatta 120
 tgaaaataca caattttact agcaaagctg tctactgtaa tcgctattta cccacagata 180
 ctctgctcaa ccatatgtta attcatggtc tgtcttgtcc atattgccgt tcaactttca 240
 atgatgtgga aaagatggcc gcacacatgc ggatggttca cattgatgaa gagatgggac 300
 ctaaaacaga ttctactttg agttttgatt tgacattgca gcagggtagt cacactaaca 360
 tccatctcct ggtaactaca tacaatctga gggatg 398

<210> 699
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 699
 ggccactgca gtgctcgagc cccgtgcagg ggagcttgcg ggaggatcga ccgacagacg 60
 gacgcacgcc gaggcactgc gccccagcc ccgcgcgggt gccaccgcag cccgaccccg 120
 gccgccagtc cagccgcccc tcgcccgggt cctaggtgcc cggccccaca ccgccagctg 180
 ctcggcgccc gggtcggcca tgcgctccgc cgctgtcctg gctcttctgc tctgcgcgg 240
 gcaagtcact gcgctccctg tgaacagccc tatgaataaa ggggataccg aggtgatgaa 300
 atgcacgtt gaggtcatct ccgacacact ttccaagccc agcccatgc ctgtcagcca 360
 ggaatgtttt gagacactcc gaggagatga acgcatcc 398

<210> 700
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 700
 gcctgaatcc cctgcaaacc ccagaggagc tcggcctgcg ctgcgccacg atgtccgggg 60
 agtcagccag gagcttgggg aagggaagcg cggccccggg gccgggtccc gagggctcga 120

```

tccgcaccta cagcatgagg ttctgcccgt ttgctgagag gacgcgtcta gtcctgaagg 180
ccaagggaat caggcatgaa gtcacataa tcaacctgaa aaataagcct gagtgggttct 240
ttaagaaaaa tccctttggt ctggtgccag ttctggaaaa cagtcagggt cagctgatct 300
acgagtctgc catcacctgt gactacctgg atgaagcata cccagggaag aagctgttgc 360
cgcatgaccc ctatgagaaa gcttgccaga agatgatct 399

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<210> 701
 <211> 399
 <212> DNA
 <213> Homo sapiens

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<400> 701
gatctcattg ccacgcgccc ccgacgaccg cccgacgtgc attcccgatt ccttttggtt 60
ccaagtccaa tatggcaact ctaaaggatc agctgattta taatcttcta aaggaagaac 120
agacccccca gaataagatt acagttggtt gggttgggtgc tgttggcatg gcctgtgcca 180
tcagtatctt aatgaaggac ttggcagatg aacttgctct tgttgatgtc atcgaagaca 240
aattgaaggg agagatgatg gatctccaac atggcagcct tttccttaga acaccaaaga 300
ttgtctctgg caaagactat aatgtaactg caaactccaa gctgggtcatt atcacggctg 360
gggcacgtca gcaagaggga gaaagccgtc ttaatttgg 399

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<210> 702
 <211> 398
 <212> DNA
 <213> Homo sapiens

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<400> 702
gccacagcgg gagcggcagc aagtcgtccg gaccgccacc gccgtcgggt tcctccggga 60
gtgaggcggc cgcgggagcc ggggccgccc cgccggcttc tcagcacccc gcaaccggca 120
ccggcgctgt ccagaccgag gccatgaagc agattctcgg ggtgatcgac aagaaacttc 180
ggaacctgga gaagaaaaag ggtaagcttg atgattacca ggaacgaatg aacaaagggg 240
aaaggcttaa tcaagatcag ctggatgccg tttctaagta ccaggaagtc acaaataatt 300
tggagtittg aaaagaatta cagaggagtt tcatggcact aagtcaagat attcagaaaa 360
caataaagaa gacagcacgt cgggagcagc ttatgaga 398

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<210> 703
 <211> 403
 <212> DNA
 <213> Homo sapiens

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<400> 703
ggttacaaaa gttgaagtgc agaagttctt tgcagacttt cttcttgctg aggatgacat 60
ttacttgctt tatgatgaca aaggtgttgg tctgggagaa gcattagtga aatttaaatt 120
agaagaacag gccatgaaag ctgaacgttt aaaccgacga agattcctag ggacagaggt 180
gttattaaga cttatatctg aggcacaaat acaggagttt ggtgtaaatt tttctgtgat 240
gtccagtga aaaaatgcaag ctgcctcaca gtcacgtgag cgaggtgacc attcccattt 300
atgtgactca aaagacccac caatatactc agttgggtgt tttgaaaact ttagacatca 360
gctagaggac ttgaggcaac tggataactt caagcatccc cag 403

```

<210> 704
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 704

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cacgaggcca aagcccgcgc gccgctgcat cccgcgtcca gcacctacgt cccgctgccg 60
tcgcccgcgc caccatgccc aagagaaagg ctgaagggga tgctaaggga gataaagcaa 120
aggtgaagga cgaaccacag agaagatccg cgagggtgtc tgctaaacct gctcctccaa 180
agccagagcc caagcctaaa aaggcccctg caaagaaggg agagaaggta cccaaaggga 240
aaaagggaaa agctgatgct ggcaaggagg ggaataaccc tgcagaaaat ggagatgcca 300
aaacagacca ggcacagaaa gctgaagggt ctggagatgc caagtgaagt gtgtgcattt 360
ttgataactg tgtacttctg gtgactgtac agtttgaaat actatTTTTT a 411

```

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<210> 705
<211> 203
<212> DNA
<213> Homo sapiens

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<400> 705
gagaacgtcc actgcggggc gccgaaagct ggttccttgt ggagaagcac tggataaagc 60
agtgggaggg atacgtgcag ggaggggacc aggactccag caccttcccc ggctcatctg 120
gcgccccagc ctccctgccc tgcagctccc caccagctc tgagttcatg gatgttaatt 180
gagagccctg ggtcctgcc cag 203

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<210> 706
<211> 402
<212> DNA
<213> Homo sapiens

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<400> 706
gtgtgggcag gcagggtagg tggcccaccc agttcactcc cacgctgggg acctgcagag 60
ctggctgtcc gagacagggt gtttggacca acatctgggt ttctggattt ccatttgagc 120
acagctggac tacacagggt gaagctctct ctgccgagat atagatattt ccctgggtgat 180
gatctttcaa gctgacatga agacatggcc acccactgga acgtcgtgtg tctgccgtgg 240
cgctcttgta atttgtgagg gaggtcctg acgaatgcag tgcgtaagtg ggaaatgggt 300
ggaagttctc gcaccccccc gcttggccga aagtgtgtcc tgcgcagatt tgtggatggg 360
cctttgagca ggaagaagac acggaacaca ttctgttag ct 402

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```

<210> 707
<211> 411
<212> DNA
<213> Homo sapiens

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<400> 707
gcacgaggca cgactgttac agaggctctc agagccttct ctctcctgtg caaaatggca 60
actcttaagg aaaaactcat tgcaccagtt gcggaagaag aggcaacagt tccaaacaat 120
aagatcactg tagtgggtgt tggacaagtt ggtatggcgt gtgctatcag cattctggga 180
aagtctctgg ctgatgaact tgctcttggt gatgttttgg aagataagct taaaggagaa 240
atgatggatc tgcagcatgg gagcttattt cttcagacac ctaaaattgt ggcagataaa 300
gattattctg tgaccgcaa ttctaagatt gtagtggtaa ctgcaggagt ccgtcagcaa 360
gaaggggaga gtcggctcaa tctgggtgcag agaaatgtta atgtcttcaa a 411

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<210> 708
<211> 418
<212> DNA
<213> Homo sapiens

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<400> 708
ggcaggccga gcaggccgct gccgagaaac gccaccgtga ggagctggag cagagcaagc 60

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aggccgctgg gggactgctg gcagagctgc tgcgggcccc gcgggagctt ggggagctga 120
 ttctctctgc gcagaaggtg gcagagcagg agcgaacagc tcagcagctg cgggcagaga 180
 aggccagcta tgcagagcag ctgagcatgc tgaagaaggc gcatggcctg ctggcagagg 240
 agaaccgggg gctgggtgag cgggccaacc ttggccggca gtttctggaa gtggagttgg 300
 accaggcccc ggagaagtat gtccaagagt tggcagccgt acgtgctgat gctgagaccc 360
 gtctggctga ggtgcagcga gaagcacaga gcaactgccc ggagctggag gtgatgac 418

<210> 709
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 709
 gcggagtcgg cgggtggctgt ccagaccgag tgttctttac tttttgtttg gttgaggttt 60
 cacgctagaa ggtggctcag gatgtcttca tcacattttg ccagtcgaca caggaaggat 120
 ataagtactg aaatgattag aactaaaatt gctcatagga aatcactgtc tcagaaagaa 180
 aatagacata aggaatacga acgaaataga cactttgggt tgaagatgt aaacattcca 240
 accttgaag gtagaattct tgttgaatta gatgagacat ctcaagggct tgttccagaa 300
 aagaccaatg ttaagccaag ggcaatgaaa actattctag gtgatcaacg aaaacagatg 360
 ctccaaaaat acaaagaaga aaagcaactt caaaaattga aagagcagag agagaaagct 420
 aa 422

<210> 710
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 710
 gcgcccagcgc cgtaccgctg cggccggggg attgggcccg ggtctccacc gccgaccgag 60
 gggagcgggc tccgctcggc cctgcttttt gcgacctggc cgtcagcccc acgtcgccgg 120
 cctggagggg cgaagaggac gagggggcca aggttctctc cggggacatt ggctccctgg 180
 attatcaaga gttttagatt gacattgaat ccaggctgag gatggaagg gtggaactta 240
 aagaagaatg gcaagatgaa gattttccga tacctttacc agaagatgat agtattgaag 300
 cagatatact agctataact ggaccagagg accagcctgg ctactagaa gttaattgaa 360
 ataaagttag aaagaaacta atggctccag acattagcct gacactggat cctagtgatg 420
 gctc 424

<210> 711
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 711
 gctcgcgccc ctttttctac acttttctct tctccccgac cggaggagcc gctctttccg 60
 cgcggtgcat tctggggccc gaggtcgagc ccgcccgtgc cgccgtcgcc tgagggaagc 120
 gagaagaggc cgcgaccgga gagaaaaagc ggagtcgcca ccggagagaa gtcgactccc 180
 tagcagcagc cgccgccaga gagggccgcc caccagttcg cccgtccccc tgccccgttc 240
 acaatgcagc ctgcttctgc aaagtgggtac gatcgaaggg actatgtctt cattgaattt 300
 tgtgttgaag acagtaagga tgttaatgta aattttgaaa aatccaaact tacattcagt 360
 tgtctcggag gaagtgataa ttttaagcat ttaaataaaa ttgatctttt tcaactgtatt 420
 gatcc 425

<210> 712
 <211> 425

<212> DNA
<213> Homo sapiens

<400> 712
 ggTTTTTCCG tgattctgat gagctcaaga gttgggtcaa tgagaagatg aaaactgcca 60
 cagatgaagc ttataaagat ccatccaacc tacaaggaaa agtacagaag catcaggctt 120
 ttgaggctga gctctcagca aaccagagcc gaattgatgc cttggagaaa gctggccaaa 180
 agctgattga tgtcaaccac tatgccaaagg atgaagtggc agctcgtatg aatgaggtga 240
 tcagtttgtg gaagaaactg ctagaggcca ctgaactgaa aggaataaag cttcgtgaag 300
 ccaaccagca acagcaattt aatcgcaatg ttgaggatat tgaattgtgg ctatatgaag 360
 tagaagggtca cttggcttcg gatgattacg gcaaagatct taccaatgtg cagaacctcc 420
 agaag 425

<210> 713
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 713
 gccgacaaaa tggacatgtc tctggacgac atcattaaac tgaaccggag ccagcgaggc 60
 ggccggggcg ggggccgggg ccgcggcccg gccggctccc agggcgggcg cggcggtggg 120
 gcgcaggccg ccgcgcgagt gaatcgaggc ggccgggccc tccggaaccg gccggccatc 180
 gcccgcggcg cggccggcgg aggcggcagg aaccgaccgg cgccctacag caggccaaaa 240
 caacttcccg acaagtggca gcacgatctt ttcgacagtg gcttcggcgg tgggtgccggc 300
 gtggagacag gtgggaaact gctggtgtcc aatctggatt ttggagtctc agacgccgat 360
 attcaggaac tctttgctga atttggaacg ctgaataagg cggctgtgca ctatgatcgc 420
 tct 423

<210> 714
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 714
 gcggcagtag aagatggtga aagaaacaac ttactacgat gttttggggg tcaaacccaa 60
 tgctactcag gaagaattga aaaaggctta taggaaactg gccttgaagt accatcctga 120
 taagaaccca aatgaaggag agaagtttaa acagatttct caagcttacg aagttctctc 180
 tgatgcaaag aaaagggaat tatatgacaa aggaggagaa caggcaatta aagaggggtg 240
 agcagggtggc ggttttggct ccccatgga catctttgat atgttttttg gaggaggagg 300
 aaggatgcag agagaaagga gaggtaaaaa tggtgtacat cagctctcag taaccctaga 360
 agacttatat aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa 420
 atgtg 425

<210> 715
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 715
 gatcatatag taaaaccag cccatgaccc ctaacagggg ccctctcagc cctcctaattg 60
 acctccggcc tagccatgtg atttcacttc cactccataa cgctcctcat actaggccta 120
 ctaaccaaca cactaaccat ataccaatga tggcgcgatg taacacgaga aagcacatac 180
 caaggccacc acacaccacc tgtccaaaaa ggcttctgat acgggataat cctatattatt 240
 acctcagaag tttttttctt cgcaggattt ttctgagcct ttaccactc cagcctagcc 300

cctaccccc aattaggagg gcaactggccc ccaacaggca tcaccccgt aaatccccta 360
 gaagtccac tcctaaacac atccgtatta ctgcgcatcag gagtatcaat cacctgagct 420
 cac 423

<210> 716
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 716
 gcggcgggc ggagagacgc agcggagggtt ttccctggttt cggaccccag cggccgggatg 60
 gtgaaatcct ccctgcagcg gacccctcaat agccactgct tcgccagaga gaaggaagg 120
 gataaaccca gcgccaccat ccacgccagc cgcaccatgc cgctcctaag cctgcacagc 180
 cgcgggcgga gcagcagtga gagttccagg gtctccctcc actgctgtag taaccgggt 240
 ccggggcctc ggtggtgctc ctgatgcccc tcaccacccc ctgaagatcc caggtgggcg 300
 agggaaatagt cagagggatc acaatctttc agctaactta ttctactccg atgatcggct 360
 gaatgtaaca gaggaactaa cgtccaacga caagacgagg attctcaacg tcagtccagg 420
 ctca 424

<210> 717
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 717
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 tcagctgcct ccgcgcgcca aagtcaaacc ccgacacccg ccggcgggcc ggtgagctca 120
 ctagctgacc cggcagggtca ggatctggct tagcggcgcc gcgagctcca gtgcgcgcac 180
 ccgtggccgc ctcccagccc tctttgccgg acgagctctg ggccgccaca agactaagga 240
 atggccaccc cgcccaagag aagctgcccg tctttctcag ccagctctga ggggacccgc 300
 atcaagaaaa tctccatcga agggaaacatc gctgcaggga agtcaacatt tgtgaatatc 360
 cttaaacaat tgtgtgaaga ttgggaagtg gttcctgaac ctggtgccag atggtgcaat 420
 gtcc 424

<210> 718
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 718
 gtcggctcct cgcgcgctcg cgteccctcg tgcgggctcc agccgcagcc ttagcttcgg 60
 ctcccggctt ggggtggcgc gccgtgccct cgttttgccc tccgaacgcg gctcgaatgg 120
 caagccaaaa ttccttcagg atagaatatg atacctttgg tgaactaaag gtgccaaatg 180
 ataagtatta tggcgcccag accgtgagat ctacgatgaa ctttaagatt ggagggtgta 240
 cagaacgcat gccaacccca gttattaaag cttttggcat cttgaagcga gcggccgctg 300
 aagtaaacca ggattatggt cttgatccaa agattgctaa tgcaataatg aaggcagcag 360
 atgaggtagc tgaaggtaaa ttaaatgatc attttcctct cgtggtatgg cagactggat 420
 cagga 425

<210> 719
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 719
 gccggggcgt ctccctcacc aatcatcact tctacgatga gtccaagcct ttcacctgcc 60
 tggacgggttc ggccaccatc ccatttgatc aggtcaacga tgactattgc gactgcaaag 120
 atggctctga cgagccaggc acggctgcct gtcctaattg cagcttccac tgcaccaaca 180
 ctggctataa gccctgtat atccctcca accgggtcaa cgatgggtgt tgtgactgct 240
 gcgatggaac agacgagtac aacagcggcg tcatctgtga gaacacctgc aaagagaagg 300
 gccgtaagga gagagagtc ctgcagcaga tggccgaggt caccgcgaa gggttccgtc 360
 tgaagaagat ccttattgag gactggaaga aggcacggga ggagaaacag aaa 413

<210> 720
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 720
 gaaagcctct tgtcatctct cagatgggtt ccaaaaagaa gcccaaaatt atccagcaaa 60
 acaaaaaaga gacctgcct caagtgaagg gagaggagat gccggcagga aaagaccagg 120
 aggccagcag gggctctgtt ccttcagggt ccaagatgga caggaggcg ccagtacctc 180
 gcaccaaggc cagtggaaca gagcacaata agaaaggaa caaggaaagg acaaatggtg 240
 atattgttcc agaacgaggg gacatcgagc ataagaagcg gaaagctaag gaggcagccc 300
 cagccccacc caccgaggaa gacatctggt ttgacgacgt ggaccacgag gatatcgaag 360
 ctgccatagg tccagaggcg gccaaagatag cgaggaaaca gttgggtcag agcg 414

<210> 721
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 721
 ggcgggcgag gccgggctgg gccgcgcgc ggcggcagcg gcgccccggg ccggaggcg 60
 cccagccgag cgggccatgg ccaccgccat tcagaaccgc ctcaagtgc gaggacttct 120
 accgcgaggc catcgagcac tgccgcagtt acaacgcgcg cctgtgcgc gagcgcagcc 180
 tgcgactgcc ctctctcgac tcgcagaccg gcgtggccca gaacaactgc tacatctgga 240
 tggagaagac ccaccgcggg ccgggtttgg ccccgggaca gatttacag taccgcgcc 300
 gctgttgag gaagaaacgg agactcaaca tcctggagga cccagactc aggcctgcg 360
 agtacaagat cgactgtgaa gcaccctga agaaggagg tggcctccg gaag 414

<210> 722
 <211> 412
 <212> DNA
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 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 727

<211> 414

<212> DNA

<213> Homo sapiens

<400> 727

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<210> 728

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<212> DNA

<213> Homo sapiens

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<223> n = A,T,C or G

<400> 728

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<210> 729

<211> 4747

<212> DNA

<213> Homo sapiens

<400> 729

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<210> 730

<211> 2264

<212> DNA

<213> Homo sapiens

<400> 730

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<210> 731

<211> 2990

<212> DNA

<213> Homo sapiens

<400> 731

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<213> Homo sapiens

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			20					25					30		
Val	Gln	Asn	Ala	Ile	Leu	Gln	Ala	Val	Gln	Gln	Val	Ser	Gln	Glu	Ser
		35					40					45			
Gln	Arg	Arg	Glu	Glu	Arg	Ile	Ser	Asp	Asn	Arg	Asp	His	Ile	Gln	Leu
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<211> 74

<213> Homo sapiens

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Gly	Val	Leu	Asn 35	Glu	Cys	Cys	Phe 40	Ala	Thr	Arg	Leu	Cys 45	Ile	Cys	Ile
Arg	Thr 50	Leu	Leu	Thr	Phe	Pro 55	Ile	His	Thr	Leu	Asn 60	Phe	Phe	Phe	Glu
Ile 65	Met	Lys	Ile	Ile	Gln 70	Val	Arg	Asn	Thr						